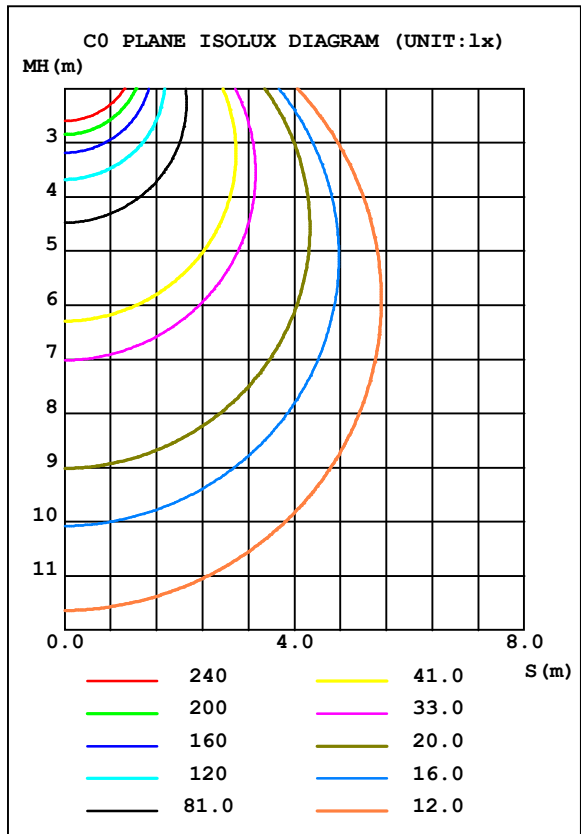
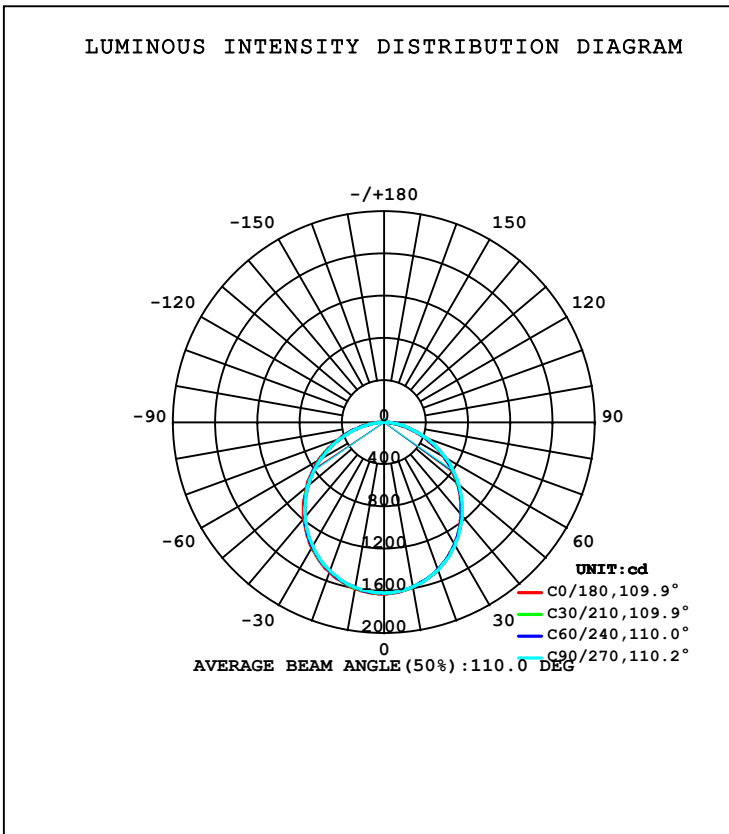


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:232.6V I:0.2122A P:46.44W PF:0.9409 Lamp Flux:4587.88x1 lm		
NAME: SmartDCeo-50W-MU	TYPE:4000K	WEIGHT:
DIM.: D540*41	SPEC.:	SERIAL No.:1
MFR.:	SUR.:0.48*0.48	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	66405	Imax (cd)	1626	S/MH (C0/180)	1.23
NOMINAL POWER (W)	48	LOR (%)	100.0	S/MH (C90/270)	1.24
RATED VOLTAGE (V)	232	TOTAL FLUX (lm)	4587.9	η UP, DN (C0-180)	1.1, 48.2
NOMINAL FLUX (lm)	4587.88	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.8, 49.9
LAMPS INSIDE	1	η up (%)	1.9	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	232.6	η down (%)	98.1	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2020-10-13

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
 Humidity: 65.0%
 Test Distance: 6.400m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1587	1585	1586	1581	1601	1593	1590	1588	0- 10	153.1	153.1	3.34,3.34
20	1487	1490	1493	1487	1515	1505	1500	1500	10- 20	437.1	590.2	12.9,12.9
30	1336	1341	1346	1340	1375	1362	1357	1357	20- 30	658.8	1249	27.2,27.2
40	1139	1147	1155	1148	1187	1174	1168	1169	30- 40	788.3	2037	44.4,44.4
50	906.6	917.7	927.5	920.7	964.5	949.2	942.2	944.1	40- 50	810.2	2847	62.1,62.1
60	652.6	665.4	676.9	670.4	714.1	697.7	689.3	692.5	50- 60	724.2	3572	77.8,77.8
70	388.7	401.5	412.5	408.6	449.2	433.6	425.5	429.0	60- 70	544.8	4116	89.7,89.7
80	138.1	154.6	164.7	162.2	197.4	183.4	176.3	179.6	70- 80	307.2	4424	96.4,96.4
90	10.13	10.05	10.15	10.12	6.716	5.272	5.136	5.149	80- 90	78.80	4502	98.1,98.1
100	11.38	11.36	11.35	11.40	6.199	6.159	6.248	6.053	90-100	8.838	4511	98.3,98.3
110	13.73	13.54	13.43	13.64	8.148	8.272	8.256	8.126	100-110	10.31	4522	98.6,98.6
120	16.16	16.08	16.04	15.87	10.86	10.90	11.21	10.93	110-120	12.09	4534	98.8,98.8
130	19.03	18.29	18.39	17.73	12.91	13.08	13.80	13.70	120-130	12.99	4547	99.1,99.1
140	20.87	20.48	19.74	19.39	16.16	15.90	16.48	16.77	130-140	13.49	4560	99.4,99.4
150	20.38	20.04	19.66	19.47	16.81	16.73	16.97	17.25	140-150	11.47	4572	99.6,99.6
160	20.66	20.35	20.31	20.08	18.13	17.95	18.19	18.35	150-160	8.660	4580	99.8,99.8
170	21.10	20.85	20.90	20.67	20.00	19.81	19.72	19.81	160-170	5.631	4586	100,100
180	20.87	20.79	20.81	20.64	20.93	20.78	20.78	20.64	170-180	1.955	4588	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

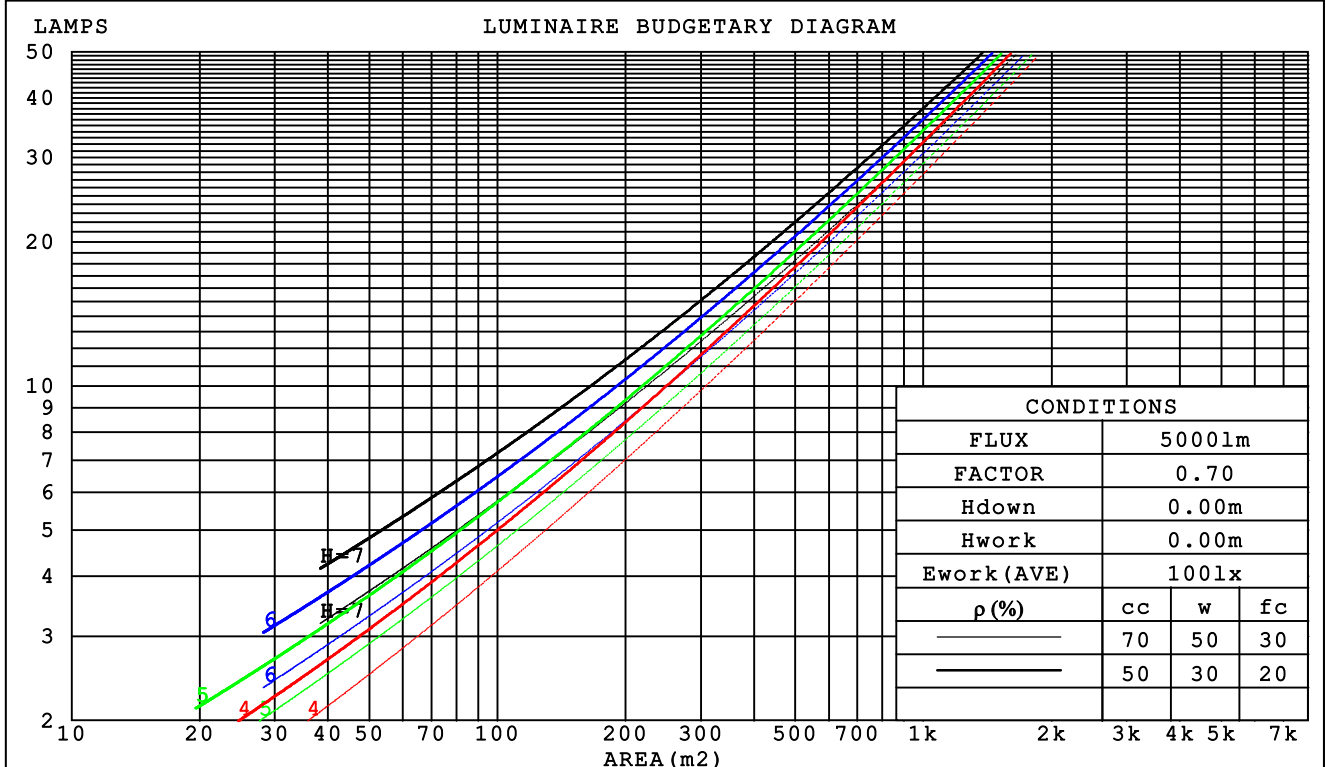
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2020-10-13

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.269
 Humidity:65.0%
 Test Distance:6.400m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:232.6V I:0.2122A P:46.44W PF:0.9409 Lamp Flux:4587.88x1 lm		
NAME: SmartDCeo-50W-MU	TYPE:4000K	WEIGHT:
DIM.: D540*41	SPEC.:	SERIAL No.:1
MFR.:	SUR.:0.48*0.48	PROTECTION ANGLE:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.10	1.10	1.10	1.05	1.05	1.05	1.00	1.00	1.00	.98
1.0	1.04	.99	.96	1.01	.97	.94	.97	.93	.91	.92	.90	.87	.88	.86	.85	.82
2.0	.90	.84	.78	.88	.82	.77	.84	.79	.75	.81	.77	.73	.78	.74	.71	.69
3.0	.79	.71	.65	.78	.70	.64	.74	.68	.63	.71	.66	.61	.69	.64	.60	.58
4.0	.70	.62	.55	.69	.61	.54	.66	.59	.53	.64	.57	.52	.61	.56	.52	.49
5.0	.63	.54	.47	.62	.53	.47	.59	.52	.46	.57	.51	.46	.55	.49	.45	.43
6.0	.57	.48	.41	.55	.47	.41	.53	.46	.40	.52	.45	.40	.50	.44	.39	.37
7.0	.51	.43	.36	.50	.42	.36	.49	.41	.36	.47	.40	.35	.46	.40	.35	.33
8.0	.47	.38	.32	.46	.38	.32	.45	.37	.32	.43	.37	.32	.42	.36	.31	.29
9.0	.43	.35	.29	.42	.34	.29	.41	.34	.29	.40	.33	.29	.39	.33	.28	.26
10.0	.40	.32	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.26	.24



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2020-10-13

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.269
 Humidity:65.0%
 Test Distance:6.400m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:232.6V I:0.2122A P:46.44W PF:0.9409 Lamp Flux:4587.88x1 lm		
NAME: SmartDCeo-50W-MU	TYPE:4000K	WEIGHT:
DIM.: D540*41	SPEC.:	SERIAL No.:1
MFR.:	SUR.:0.48*0.48	PROTECTION ANGLE:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.306	.174	.055	.298	.170	.054	.284	.163	.052	.271	.156	.050	.258	.150	.048	
2.0	.288	.158	.048	.282	.155	.048	.269	.150	.046	.257	.144	.045	.246	.139	.044	
3.0	.267	.142	.043	.261	.140	.042	.250	.135	.041	.240	.131	.040	.230	.127	.039	
4.0	.247	.128	.038	.242	.126	.037	.232	.123	.037	.222	.119	.036	.214	.116	.035	
5.0	.228	.116	.034	.224	.115	.033	.215	.112	.033	.206	.109	.032	.199	.106	.032	
6.0	.212	.106	.030	.208	.105	.030	.200	.102	.030	.192	.100	.029	.185	.098	.029	
7.0	.197	.098	.028	.194	.096	.027	.186	.094	.027	.180	.092	.027	.173	.090	.026	
8.0	.184	.090	.025	.181	.089	.025	.175	.087	.025	.169	.085	.025	.163	.084	.024	
9.0	.173	.084	.023	.170	.083	.023	.164	.081	.023	.159	.079	.023	.153	.078	.023	
10.0	.163	.078	.022	.160	.077	.022	.155	.076	.021	.150	.074	.021	.145	.073	.021	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients (CCEC)									
0.0	.205	.205	.205	.175	.175	.175	.119	.119	.119	.069	.069	.069	.022	.022	.022	
1.0	.194	.170	.149	.166	.146	.128	.114	.101	.089	.065	.058	.052	.021	.019	.017	
2.0	.186	.146	.113	.159	.126	.098	.109	.087	.068	.063	.051	.040	.020	.016	.013	
3.0	.178	.129	.089	.153	.111	.077	.105	.077	.054	.061	.045	.032	.019	.015	.010	
4.0	.171	.115	.073	.147	.100	.064	.101	.070	.045	.058	.041	.026	.019	.013	.009	
5.0	.163	.105	.062	.140	.091	.054	.097	.064	.038	.056	.037	.023	.018	.012	.007	
6.0	.156	.097	.054	.134	.084	.047	.093	.059	.033	.054	.035	.020	.017	.011	.007	
7.0	.150	.090	.048	.129	.078	.042	.089	.055	.030	.052	.032	.018	.017	.011	.006	
8.0	.143	.084	.044	.123	.073	.038	.085	.051	.027	.050	.030	.016	.016	.010	.005	
9.0	.137	.079	.040	.118	.069	.035	.082	.048	.025	.048	.029	.015	.015	.009	.005	
10.0	.131	.075	.037	.113	.065	.033	.079	.046	.023	.046	.027	.014	.015	.009	.005	

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2020-10-13

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.269
 Humidity:65.0%
 Test Distance:6.400m [K=1.0000]
 Remarks:

Uncorrected UGR Table

Test:U:232.6V I:0.2122A P:46.44W PF:0.9409 Lamp Flux:4587.88x1 lm										
NAME: SmartDCeo-50W-MU					TYPE:4000K			WEIGHT:		
DIM.: D540*41					SPEC.:			SERIAL No.:1		
MFR.:					SUR.:0.48*0.48			PROTECTION ANGLE:		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	19.7	21.2	20.0	21.4	21.7	19.8	21.3	20.1	21.5	21.7
3H	21.1	22.5	21.4	22.7	23.0	21.2	22.6	21.6	22.9	23.1
4H	21.6	22.9	21.9	23.2	23.5	21.8	23.1	22.1	23.4	23.7
6H	21.9	23.1	22.3	23.4	23.7	22.2	23.4	22.5	23.7	24.0
8H	22.0	23.1	22.3	23.5	23.8	22.3	23.5	22.6	23.8	24.1
12H	22.0	23.1	22.3	23.4	23.8	22.3	23.4	22.7	23.8	24.1
4H 2H	20.3	21.6	20.6	21.9	22.2	20.3	21.7	20.7	21.9	22.2
3H	21.8	23.0	22.2	23.3	23.7	22.0	23.1	22.3	23.4	23.8
4H	22.5	23.5	22.9	23.9	24.2	22.6	23.7	23.0	24.0	24.4
6H	22.9	23.8	23.3	24.2	24.6	23.1	24.1	23.6	24.4	24.8
8H	23.0	23.9	23.4	24.3	24.7	23.3	24.1	23.7	24.5	25.0
12H	23.0	23.8	23.5	24.2	24.7	23.4	24.1	23.8	24.6	25.0
8H 4H	22.7	23.6	23.2	24.0	24.4	22.9	23.7	23.3	24.1	24.5
6H	23.3	24.0	23.7	24.4	24.9	23.5	24.2	23.9	24.6	25.1
8H	23.4	24.1	23.9	24.5	25.0	23.7	24.3	24.2	24.8	25.3
12H	23.5	24.1	24.0	24.5	25.1	23.8	24.4	24.3	24.8	25.4
12H 4H	22.7	23.5	23.2	23.9	24.4	22.9	23.6	23.3	24.1	24.5
6H	23.3	23.9	23.8	24.4	24.9	23.5	24.1	24.0	24.6	25.1
8H	23.5	24.0	24.0	24.5	25.0	23.8	24.3	24.3	24.8	25.3
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117 Corrected 4588 lm Total Lamp Luminous Flux. (8log(F/F0) = 5.3)

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2020-10-13

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.269
 Humidity:65.0%
 Test Distance:6.400m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:232.6V I:0.2122A P:46.44W PF:0.9409 Lamp Flux:4587.88x1 lm		
NAME: SmartDCeo-50W-MU	TYPE:4000K	WEIGHT:
DIM.: D540*41	SPEC.:	SERIAL No.:1
MFR.:	SUR.:0.48*0.48	PROTECTION ANGLE:

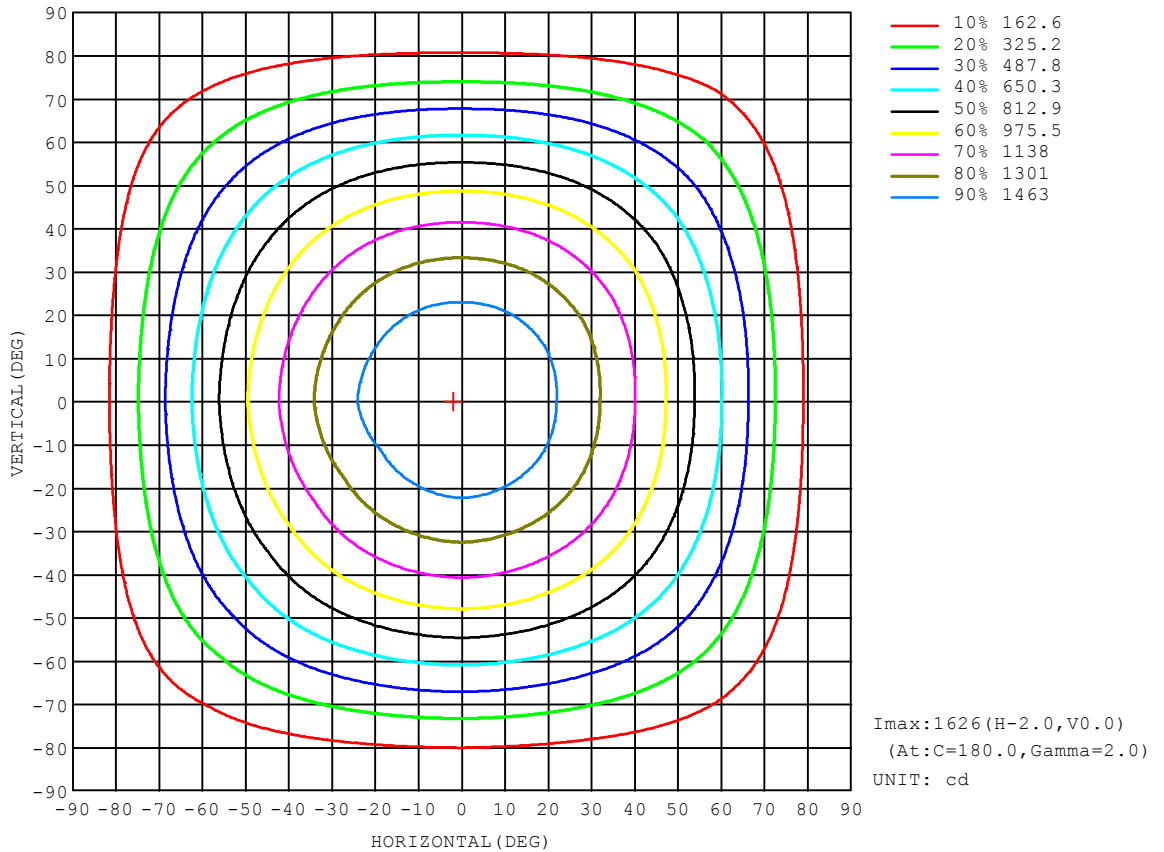
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	57	46	39	57	46	39	55	45	39	32
0.80	67	56	48	66	55	48	64	54	48	41
1.00	76	65	57	74	64	57	72	65	56	49
1.25	83	72	65	81	72	65	78	70	64	56
1.50	88	78	71	86	77	70	83	75	69	61
2.00	95	86	80	93	85	79	89	82	77	69
2.50	99	91	85	96	89	84	92	86	82	73
3.00	102	95	90	100	93	88	95	90	86	77
4.00	106	100	96	103	98	94	99	95	91	82
5.00	108	103	99	106	101	98	101	97	94	85
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2020-10-13

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.269
 Humidity:65.0%
 Test Distance:6.400m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:232.6V I:0.2122A P:46.44W PF:0.9409 Lamp Flux:4587.88x1 lm		
NAME: SmartDCeo-50W-MU	TYPE:4000K	WEIGHT:
DIM.: D540*41	SPEC.:	SERIAL No.:1
MFR.:	SUR.:0.48*0.48	PROTECTION ANGLE:

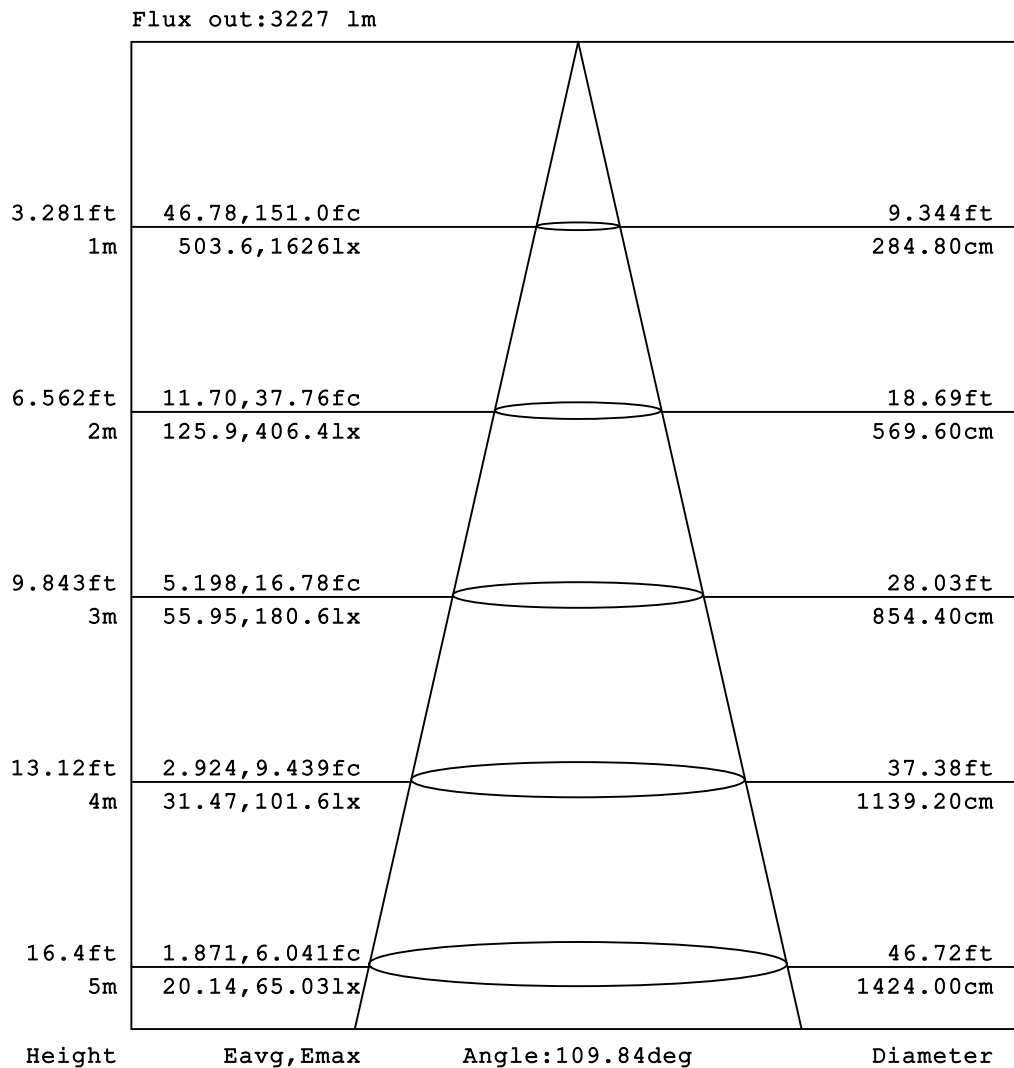


C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2020-10-13

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.269
 Humidity:65.0%
 Test Distance:6.400m [K=1.0000]
 Remarks:

AAI Figure

Test:U:232.6V I:0.2122A P:46.44W PF:0.9409 Lamp Flux:4587.88x1 lm		
NAME: SmartDCeo-50W-MU	TYPE:4000K	WEIGHT:
DIM.: D540*41	SPEC.:	SERIAL No.:1
MFR.:	SUR.:0.48*0.48	PROTECTION ANGLE:



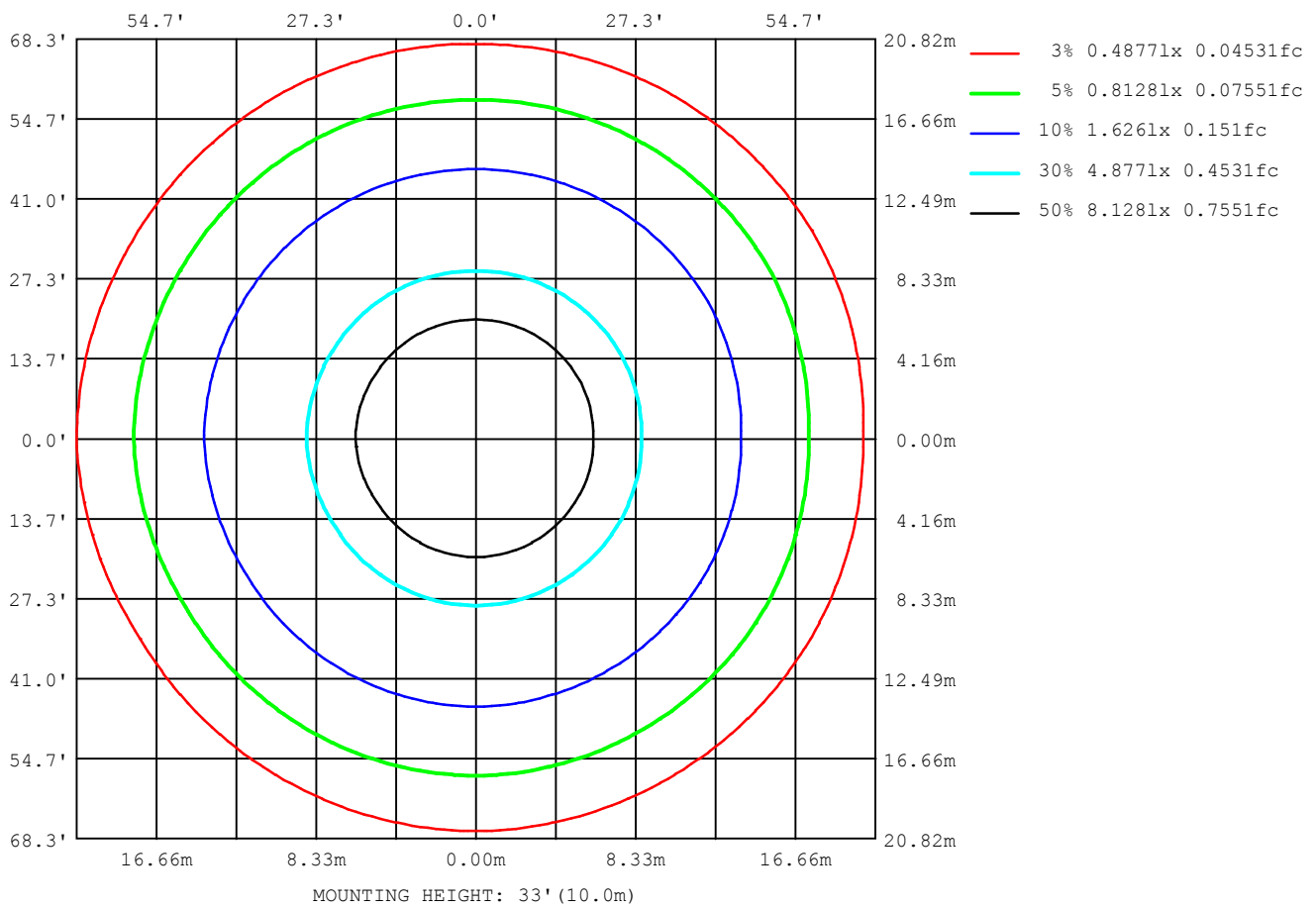
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2020-10-13

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.269
 Humidity:65.0%
 Test Distance:6.400m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

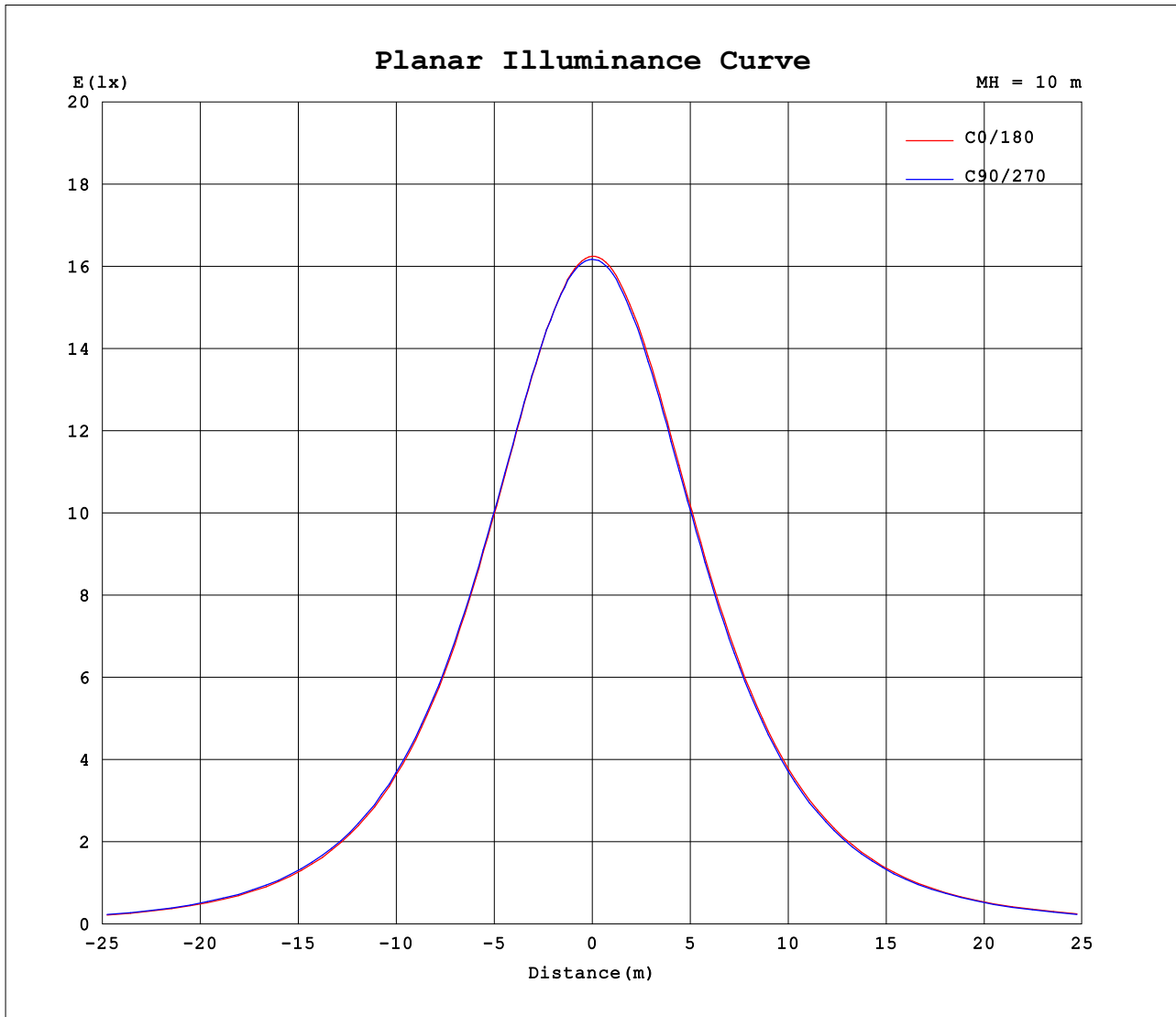
Test:U:232.6V I:0.2122A P:46.44W PF:0.9409 Lamp Flux:4587.88x1 lm		
NAME: SmartDCeo-50W-MU	TYPE:4000K	WEIGHT:
DIM.: D540*41	SPEC.:	SERIAL No.:1
MFR.:	SUR.:0.48*0.48	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2020-10-13

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.269
 Humidity:65.0%
 Test Distance:6.400m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2020-10-13

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
 Humidity: 65.0%
 Test Distance: 6.400m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:232.6V I:0.2122A P:46.44W PF:0.9409 Lamp Flux:4587.88x1 lm		
NAME: SmartDCeo-50W-MU	TYPE:4000K	WEIGHT:
DIM.: D540*41	SPEC.:	SERIAL No.:1
MFR.:	SUR.:0.48*0.48	PROTECTION ANGLE:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	1626	1622	1619	1618	1616	1615	1626	1622	1619	1618	1616	1615						
5	1613	1611	1609	1609	1607	1605	1621	1616	1613	1612	1610	1609						
10	1587	1586	1584	1586	1582	1580	1601	1595	1591	1590	1589	1587						
15	1544	1545	1544	1546	1542	1540	1565	1557	1555	1552	1552	1550						
20	1487	1490	1489	1493	1488	1486	1515	1506	1504	1500	1501	1499						
25	1418	1421	1420	1426	1420	1419	1451	1441	1438	1435	1436	1434						
30	1336	1341	1340	1346	1341	1339	1375	1363	1360	1357	1358	1355						
35	1241	1248	1248	1256	1250	1248	1286	1274	1272	1267	1269	1267						
40	1139	1146	1147	1155	1149	1147	1187	1175	1173	1168	1170	1168						
45	1026	1035	1037	1045	1039	1038	1080	1066	1065	1058	1062	1058						
50	907	917	919	928	922	920	965	950	949	942	946	942						
55	782	792	795	804	799	797	842	827	826	819	823	820						
60	653	665	666	677	671	670	714	698	697	689	695	690						
65	521	533	535	545	541	539	582	568	565	558	563	560						
70	389	400	403	413	409	408	449	435	432	426	430	428						
75	261	272	274	284	281	281	321	307	304	297	302	300						
80	138	154	156	165	162	162	197	185	182	176	180	179						
85	43.4	53.6	54.4	61.5	58.9	60.5	89.1	78.0	75.6	70.0	73.5	73.0						
90	10.1	10.0	10.1	10.2	10.2	10.1	6.72	5.34	5.20	5.14	5.18	5.12						
95	10.8	10.5	10.5	10.7	10.6	10.5	5.58	5.49	5.44	5.60	5.37	5.33						
100	11.4	11.4	11.3	11.4	11.5	11.3	6.20	6.11	6.21	6.25	6.13	5.97						
105	12.3	12.4	12.4	12.2	12.5	12.6	6.99	7.14	7.12	7.03	7.07	6.99						
110	13.7	13.5	13.6	13.4	13.6	13.7	8.15	8.25	8.30	8.26	8.10	8.16						
115	15.0	14.8	14.8	14.9	14.7	14.9	9.65	9.49	9.53	9.72	9.36	9.51						
120	16.2	16.0	16.2	16.0	15.7	16.0	10.9	10.8	11.0	11.2	10.7	11.1						
125	17.2	16.8	16.9	16.9	16.5	16.7	11.8	11.7	12.0	12.3	11.9	12.3						
130	19.0	18.3	18.3	18.4	17.8	17.7	12.9	12.8	13.4	13.8	13.8	13.6						
135	20.9	20.5	20.1	19.6	19.2	19.0	15.2	15.1	15.2	16.1	16.2	16.0						
140	20.9	20.7	20.2	19.7	19.5	19.3	16.2	15.8	16.0	16.5	16.7	16.8						
145	20.5	20.4	20.0	19.6	19.5	19.3	16.5	16.2	16.4	16.6	16.8	17.1						
150	20.4	20.2	19.9	19.7	19.5	19.4	16.8	16.6	16.9	17.0	17.1	17.4						
155	20.5	20.2	20.0	19.8	19.6	19.5	17.4	17.2	17.4	17.5	17.6	17.9						
160	20.7	20.5	20.2	20.3	20.1	20.1	18.1	17.9	18.0	18.2	18.2	18.5						
165	21.2	20.9	20.6	20.8	20.6	20.5	19.3	19.2	19.1	19.1	19.2	19.4						
170	21.1	20.9	20.8	20.9	20.7	20.7	20.0	19.8	19.8	19.7	19.7	19.9						
175	21.0	20.8	20.8	20.9	20.6	20.8	20.5	20.3	20.3	20.2	20.1	20.3						
180	20.9	20.8	20.7	20.8	20.6	20.7	20.9	20.8	20.7	20.8	20.6	20.7						

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2020-10-13

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.269
 Humidity:65.0%
 Test Distance:6.400m [K=1.0000]
 Remarks: