

# TEST REPORT

1. Applicant

Client Name : 포스라이팅

Address :

Date of Receipt : 2016-03-31 오후 2:49:35

2. Purpose of Report :

3. Test Standard / Item : /

4. Test Period : 2016-03-31 오후 2:39:58 ~ 2016-03-31 오후 2:46:26

5. Test Environment

Ambient Temp. : ( 25 +- 3 ) °C

Relative Humidity : ( 50 +- 10 ) % RH

6. Test Result : Refer to the attachment

Test Item
Name of Product :
플레넷 원형투광등 80W 5700K PHB-08012A-DA
Model / Rating :
Model :
Rating :

Confirmation	Test by Eunryeong.Park	Technical manager Minjun.Jang
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The result shown in this test report refer only to the sample(s) tested unless otherwise stated.  
 This report cannot be reproduced, except in full.  
 This report is for reference only. It cannot replace the report by standard organization(s).

# TEST RESULT

Report Number	Sample Name	Sample Number	Test Standard
	플레넷 원형투광등 80W 5700K PHB-08012A-DA		
Test Item	Unit	Result	Memo
Beam Distribution Test	-	See attachment	
ATHD	%	4.2	
CIE 1931 Cxy		0.0000, 0.0000	
Correlated Color Temperature	K	0	
Ra	-	0	
Power Factor	%	0.940	
Input Voltage	V	220.620	
Input Current	A	0.379	
Input Watt	W	78.88	
Lamp Flux	lm	9972.4	
Efficient	lm/W	126.88	
Illuminance	lx	4338	1 m
		1084	2 m
		482	3 m

\* This test result is for the sample provided by the client.

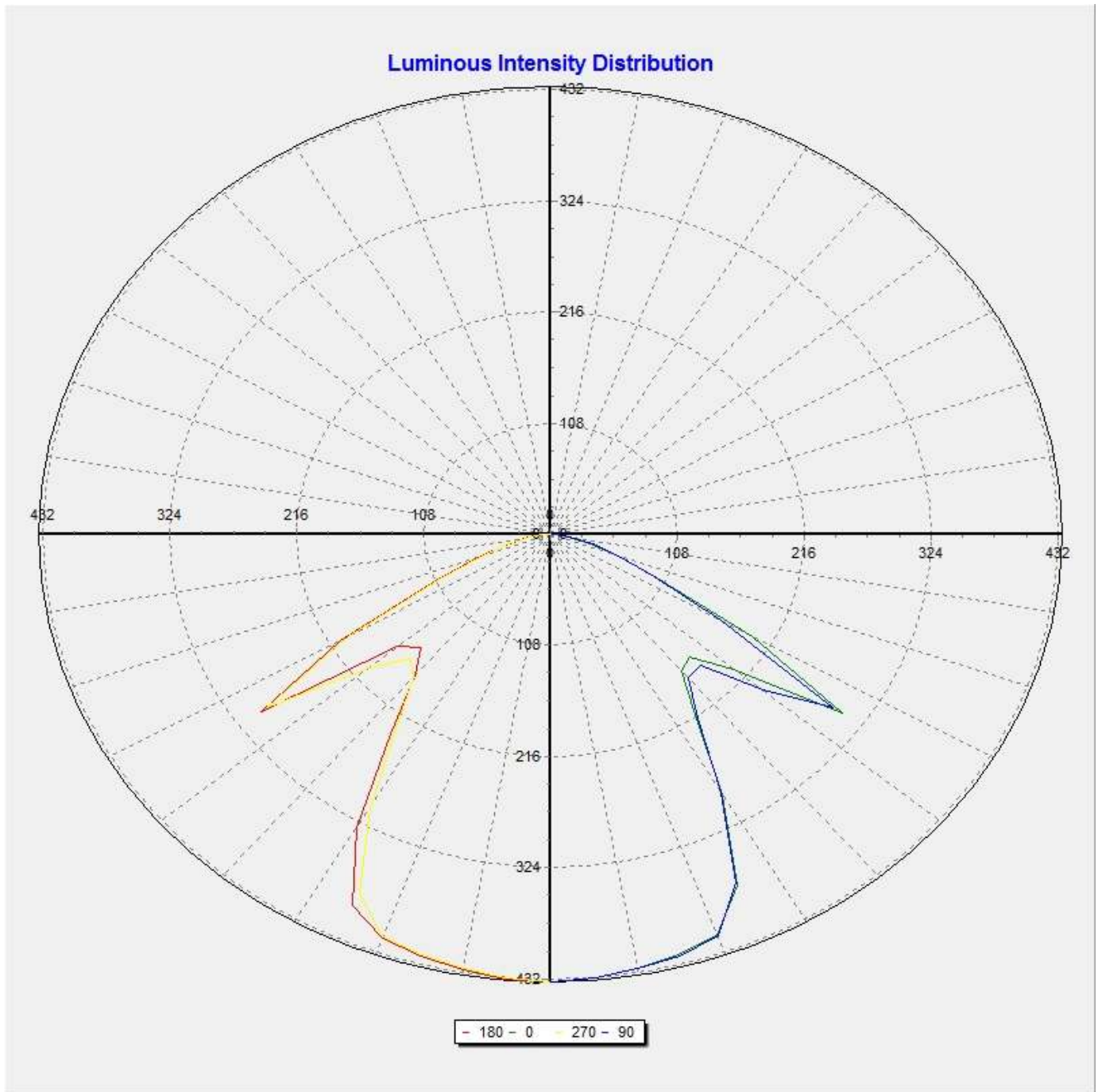
Sample photo



Luminaire

Lamp	Report		
No. of lamps	Filename D:\배광\16data\포스라이팅\플레넷 원형투광등 80W 5700K PHB-08012A-DA 3005 0331.jdt		
Lamp flux (lm)	Operator	Current (A)	0.379
Total flux (lm)	Date	Power Factor	0.94

2016-03-31 오후 2:49:35

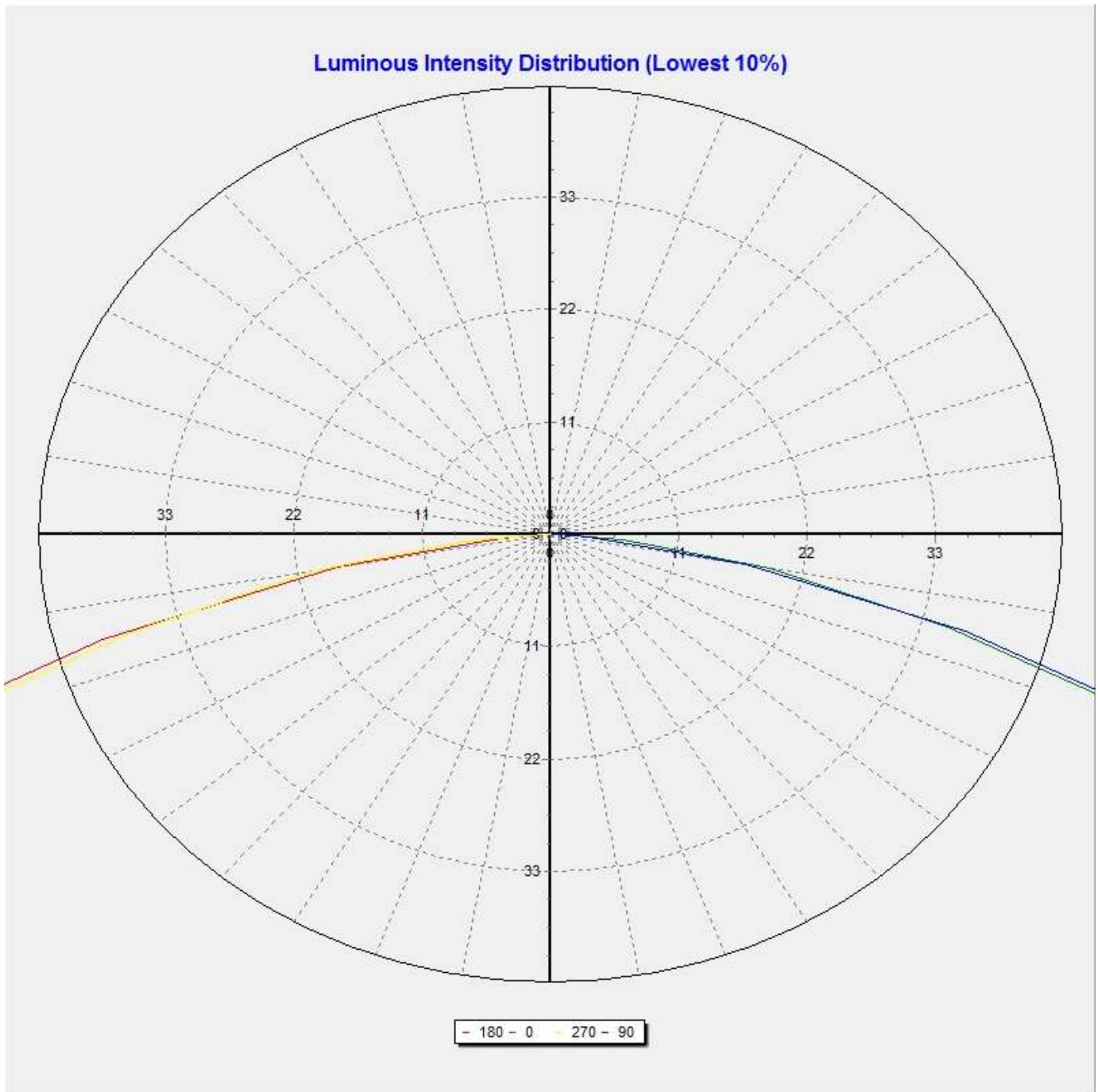


All luminous intensity values are in Cd/KLm unit.

Luminaire

Lamp	Report		
No. of lamps	Filename D:\배광\16data\포스라이팅\플레넷 원형투광등 80W 5700K PHB-08012A-DA 3005 0331.jdt		
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2016-03-31 오후 2:49:35



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Luminaire

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No. of lamps	Filename D:\배광\16data\포스라이팅\플레넷 원형투광등 80W 5700K PHB-08012A-DA 3005 0331.jdt		
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2016-03-31 오후 2:49:35

**Luminous Intensity Data**

GWC	0	30	60	90	120	150	180	210	240	270	300
0	4337.54	4337.72	4337.92	4337.66	4337.11	4336.92	4337.54	4337.72	4337.92	4337.66	4337.11
5	4314.25	4314.62	4317.42	4320.90	4324.73	4327.10	4326.31	4325.77	4323.28	4320.60	4315.35
10	4263.99	4264.86	4269.08	4273.58	4279.50	4283.39	4281.18	4280.98	4276.87	4271.74	4265.67
15	4213.97	4216.00	4219.20	4223.89	4227.69	4228.96	4223.90	4222.85	4219.66	4215.65	4211.16
20	4141.68	4133.50	4135.42	4144.19	4165.59	4172.09	4165.19	4162.73	4160.07	4150.10	4140.32
25	3748.80	3696.00	3678.17	3714.84	3818.61	3942.50	3975.63	3967.79	3905.62	3830.89	3761.58
30	2922.04	2864.04	2843.95	2893.66	3030.65	3210.83	3279.53	3276.79	3168.23	3050.04	2949.27
35	2133.67	2126.55	2134.44	2174.99	2257.16	2327.10	2360.94	2379.40	2320.13	2249.70	2187.64
40	1730.90	1756.51	1786.04	1812.53	1825.68	1803.90	1786.57	1815.93	1811.01	1804.03	1781.03
45	1676.17	1727.47	1782.05	1794.04	1737.53	1627.08	1557.11	1573.82	1631.50	1692.74	1719.05
50	2030.04	2164.88	2298.10	2348.99	2123.87	1827.09	1689.83	1711.62	1845.99	2015.14	2127.51
55	3016.36	2954.05	2935.64	2926.57	3023.23	3061.38	2992.83	3041.27	3049.47	2939.67	2893.19
60	1981.29	1671.42	1858.23	1666.49	1990.79	1972.04	2056.66	2254.65	1851.17	1974.82	1644.84
65	991.16	955.52	1015.46	964.80	1079.36	1055.07	1066.60	1142.11	1027.18	1055.37	971.59
70	593.32	615.39	619.29	621.45	670.74	677.67	658.39	703.32	668.70	612.21	635.83
75	351.68	334.97	341.29	367.33	371.44	379.14	395.86	386.56	370.35	368.08	346.05
80	191.11	157.87	201.30	169.44	215.64	188.12	184.98	221.62	182.64	205.79	164.49
85	61.48	27.03	64.73	32.45	77.12	41.65	41.73	81.89	39.25	73.34	31.00
90	4.51	5.32	4.21	4.96	4.82	4.86	4.24	5.34	4.21	3.94	4.41

## Luminaire

Lamp	Report		
No. of lamps	Filename D:\배광\16data\포스라이팅\플레넷 원형투광등 80W 5700K PHB-08012A-DA 3005 0331.jdt		
Lamp flux (lm)	Operator	Current (A)	0.379
Total flux (lm)	Date	Power Factor	0.94

2016-03-31 오후 2:49:35

**Luminous Intensity Data (Continued)**

GWC	330	360
0	4336.92	4337.54
5	4311.86	4314.25
10	4261.13	4263.99
15	4208.93	4213.97
20	4138.13	4141.68
25	3734.78	3748.80
30	2896.66	2922.04
35	2123.26	2133.67
40	1727.00	1730.90
45	1683.59	1676.17
50	2103.25	2030.04
55	2960.82	3016.36
60	1929.80	1981.29
65	1011.54	991.16
70	617.22	593.32
75	334.57	351.68
80	193.83	191.11
85	62.17	61.48
90	3.87	4.51

## Luminaire

Lamp	Report		
No. of lamps	Filename D:\배광\16data\포스라이팅\플레넷 원형투광등 80W 5700K PHB-08012A-DA 3005 0331.jdt		
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2016-03-31 오후 2:49:35

## Luminous Flux Table

Total Lamp Lumens: 9972  
 Luminaire Efficiency (lm/W) 10608.91  
 CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	25.94	25.94	0.26	0.26
5	206.39	232.33	2.33	2.33
10	406.69	639.01	6.41	6.41
15	598.59	1237.60	12.41	12.41
20	778.16	2015.76	20.21	20.21
25	883.66	2899.42	29.07	29.07
30	831.01	3730.44	37.41	37.41
35	701.50	4431.94	44.44	44.44
40	629.54	5061.48	50.75	50.76
45	652.52	5714.00	57.30	57.30
50	849.81	6563.81	65.82	65.82
55	1339.33	7903.14	79.25	79.25
60	904.00	8807.14	88.32	88.32
65	510.68	9317.82	93.44	93.44
70	330.23	9648.05	96.75	96.75
75	191.81	9839.86	98.67	98.67
80	102.42	9942.28	99.70	99.70
85	28.84	9971.12	99.99	99.99
90	1.25	9972.37	100.00	100.00

Luminaire

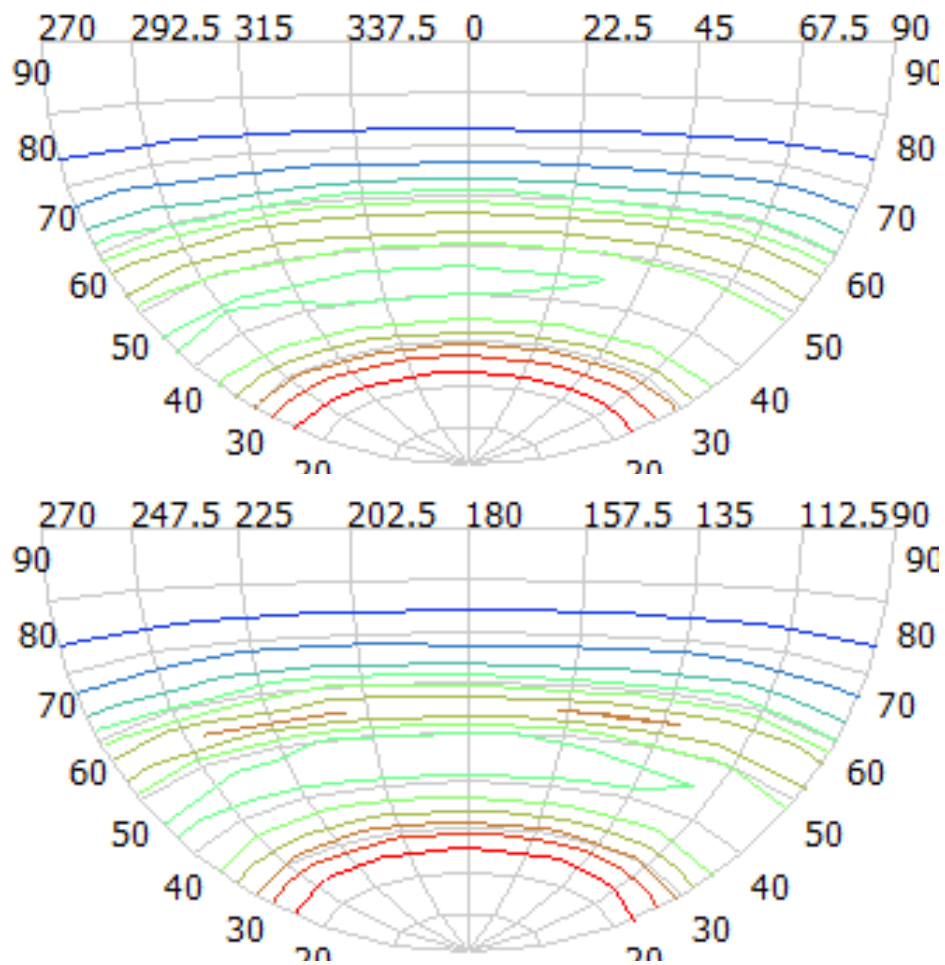
Lamp Report

No. of lamps Filename D:\배광\16data\포스라이팅\플레넷 원형투광등 80W 5700K PHB-08012A-DA 3005 0331.jdt

Lamp flux (lm) Operator Current (A) 0.379

Total flux (lm) Date Power Factor 0.94 2016-03-31 오후 2:49:35

IsoCandela (Type C)



	4 ~ 437		2171 ~ 2604
	437 ~ 871		2604 ~ 3038
	871 ~ 1304		3038 ~ 3471
	1304 ~ 1737		3471 ~ 3905
	1737 ~ 2171		3905 ~ 4338

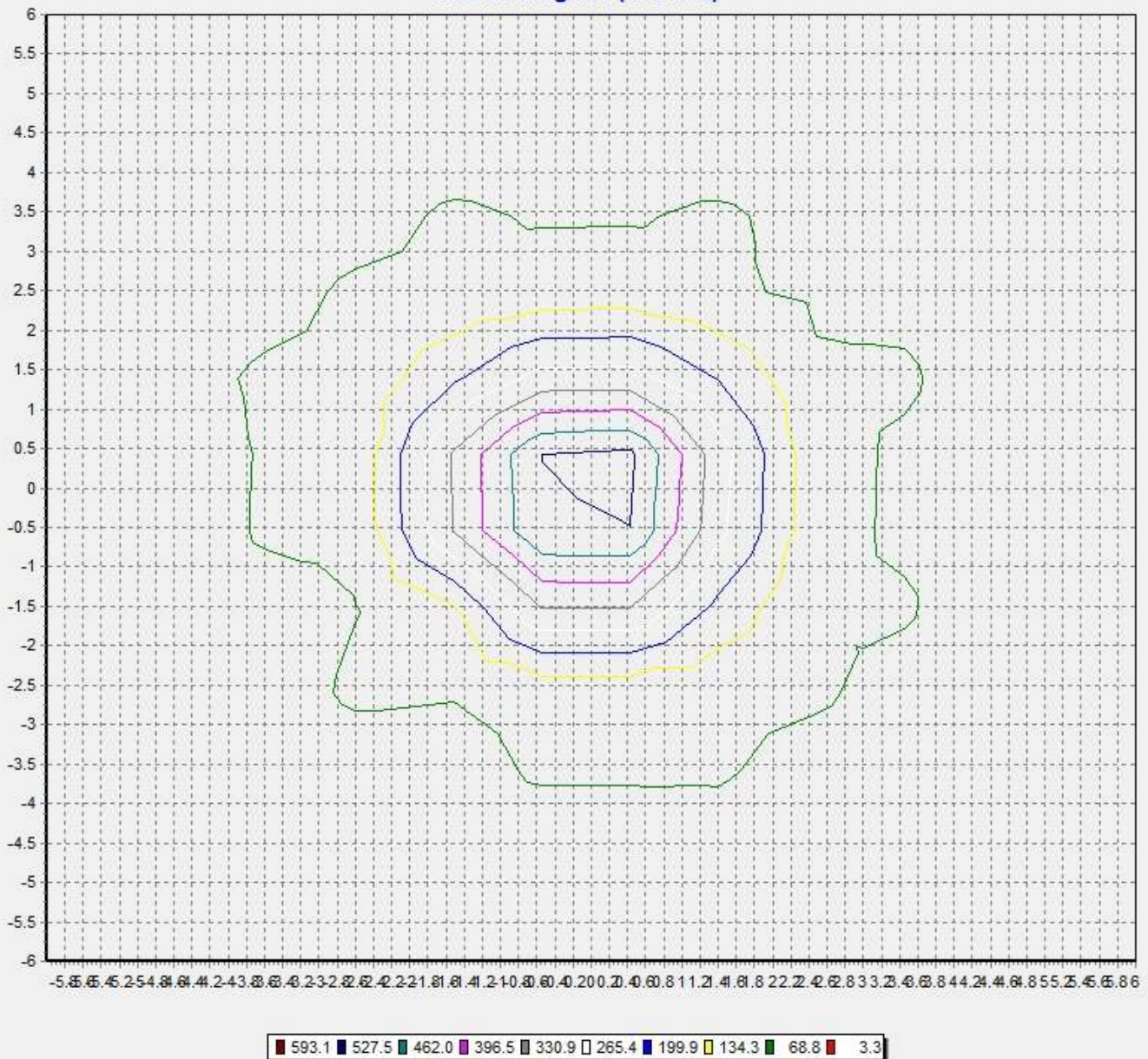


Luminaire

Lamp	Report		
No. of lamps	Filename D:\배광\16data\포스라이팅\플레넷 원형투광등 80W 5700K PHB-08012A-DA 3005 0331.jdt		
Lamp flux (lm)	Operator	Current (A)	0.379
Total flux (lm)	Date	Power Factor	0.94

2016-03-31 오후 2:49:35

IsoLux Diagram (Ground)



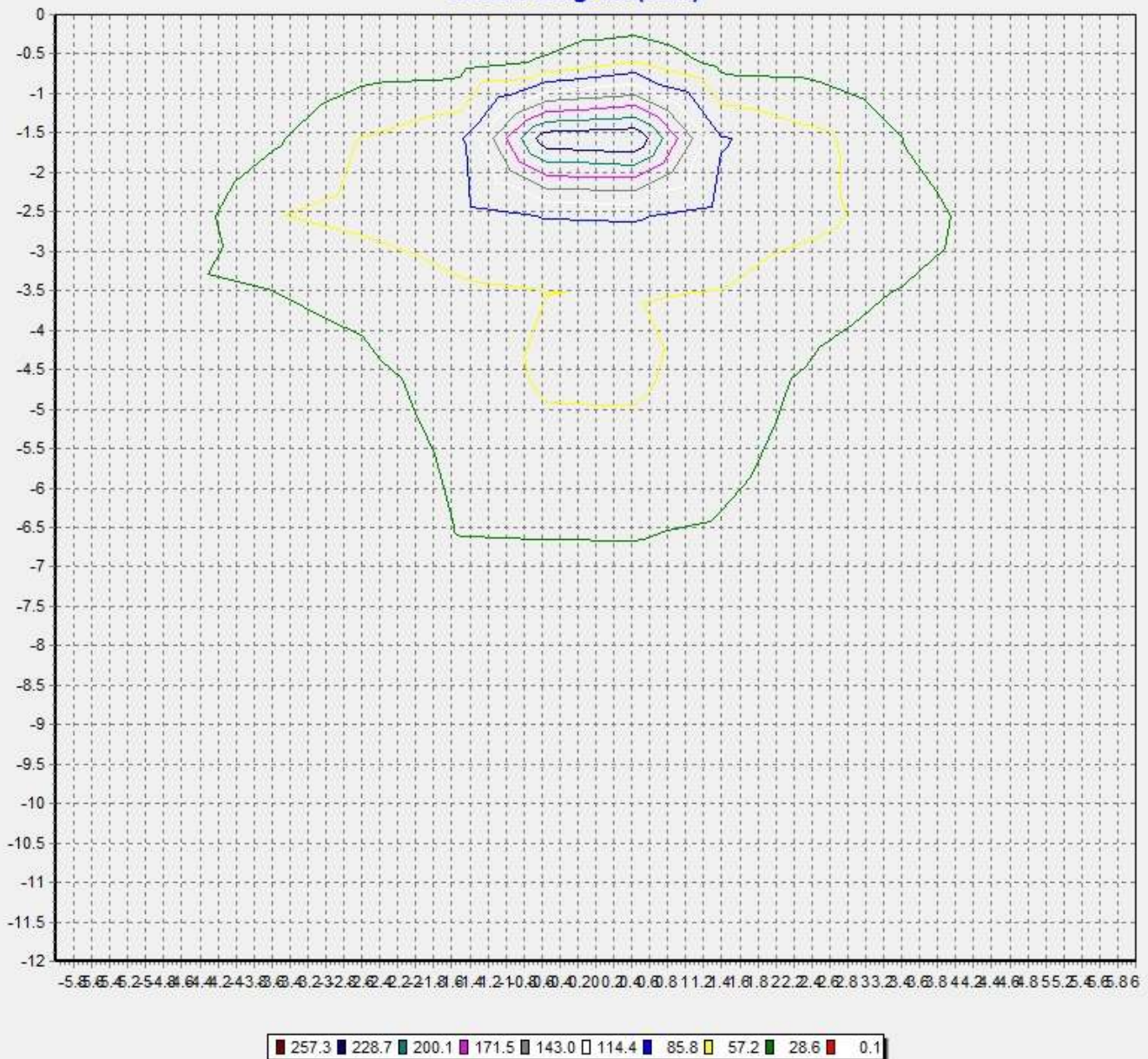
Pole Height (m): 2.7  
 Area Width (m): 12

Luminaire

Lamp	Report		
No. of lamps	Filename D:\배광\16data\포스라이팅\플레넷 원형투광등 80W 5700K PHB-08012A-DA 3005 0331.jdt		
Lamp flux (lm)	Operator	Current (A)	0.379
Total flux (lm)	Date	Power Factor	0.94

2016-03-31 오후 2:49:35

IsoLux Diagram (Wall)



Pole Height (m): 2.7      Wall Distance (m): 2.7  
 Aiming Plane: 0      Wall Height (m): 12

Luminaire

Lamp

Report

No. of lamps	1	Voltage (V)	220.62	Filename	D:\배광\16data\포스라이팅\플레넷 원형투광등 80W 5700K PHB-08012A-DA 3005 0331.jdt
Lamp flux (lm)	9972	Current (A)	0.379	Operator	
Total flux (lm)	9972	Power Factor	0.94	Date	2016-03-31 오후 2:49:35

**Illuminance Levels (Ground)**

6.00	3.23	4.47	3.93	5.85	12.89	14.91	14.77	14.36	12.08	5.35	3.90	4.43	3.06
5.00	4.74	4.44	11.54	16.84	16.38	34.46	37.02	34.16	15.02	18.59	11.75	4.18	4.35
4.00	4.24	12.76	12.12	37.59	41.49	57.27	59.15	57.31	37.41	37.86	11.63	12.09	3.77
3.00	5.91	19.79	39.75	50.85	80.14	81.36	87.41	81.51	79.71	50.94	38.94	19.75	5.33
2.00	13.61	16.92	42.07	77.42	81.51	116.28	190.31	111.99	78.24	78.49	37.65	15.10	12.30
1.00	16.71	36.57	49.77	74.31	116.30	318.59	477.22	313.12	111.62	77.86	54.04	35.82	15.99
0.00	18.05	39.55	46.73	67.23	213.43	477.37	595.00	476.15	190.82	77.59	53.41	39.42	17.33
-1.00	16.48	36.59	49.94	63.46	116.20	343.74	476.39	321.81	113.10	78.03	54.00	36.01	16.11
-2.00	14.76	18.19	45.68	74.49	78.51	116.34	199.67	113.68	79.91	78.09	36.96	15.11	12.17
-3.00	6.18	20.68	39.87	54.81	76.90	65.61	77.49	76.89	76.90	50.04	38.15	19.26	5.47
-4.00	4.18	13.48	13.29	39.55	45.37	52.14	52.76	52.04	37.03	38.16	12.01	11.95	3.91
-5.00	4.85	4.71	12.71	18.71	17.87	35.69	38.63	35.74	15.26	19.70	12.21	4.32	4.44
-6.00	3.46	4.75	4.21	6.17	14.30	16.00	17.37	15.65	12.31	5.48	3.91	4.56	3.18
	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00

Illum. (Max.): 595  
 All illuminance level values are in lux.  
 Illum. (Min.): 3.06  
 Illum. Avg.: 60.1

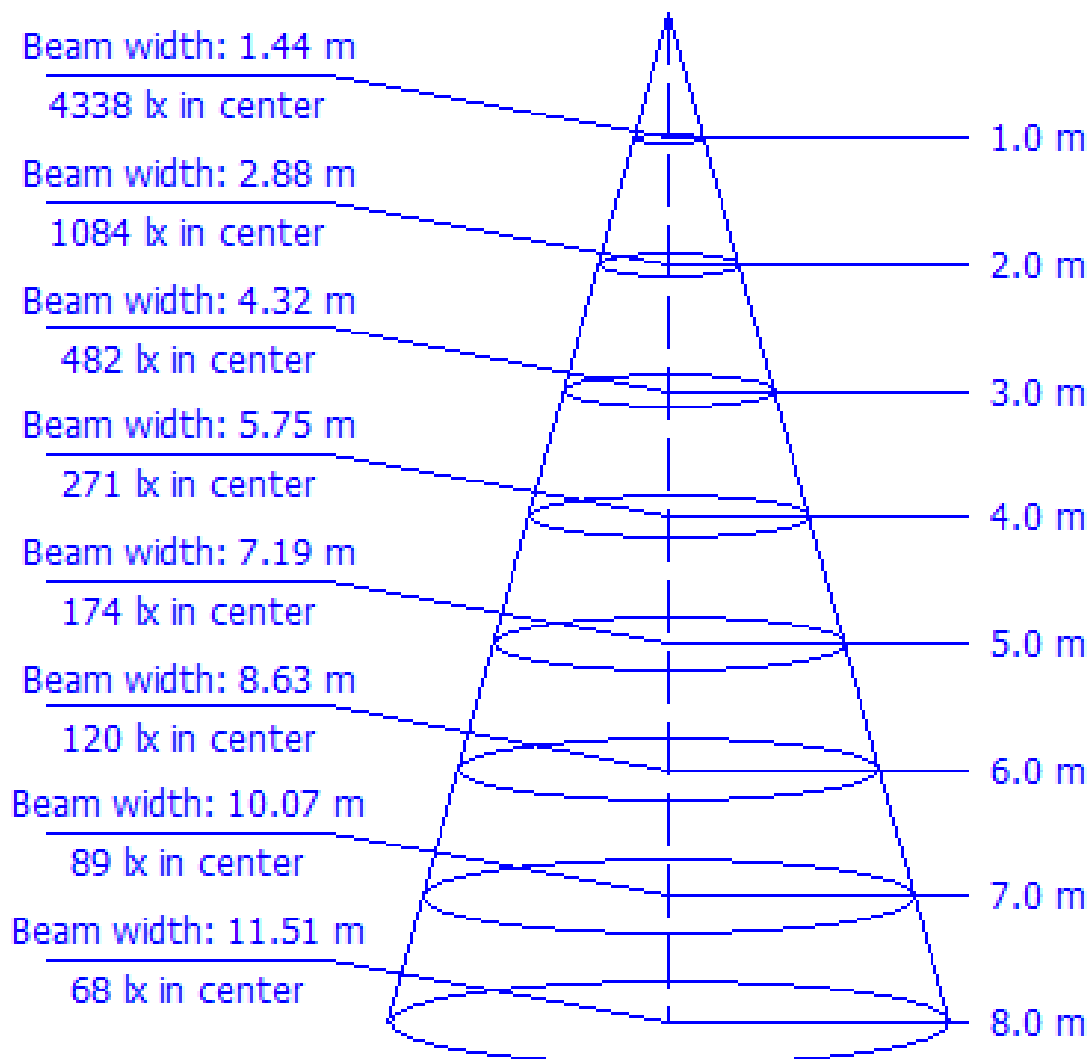
Total Optical Solution Provider

Luminaire

Lamp	Report		
No. of lamps	Filename D:\배광\16data\포스라이팅\플레넷 원형투광등 80W 5700K PHB-08012A-DA 3005 0331.jdt		
Lamp flux (lm)	Operator	Current (A)	0.379
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2016-03-31 오후 2:49:35

**Illuminance Cone Diagram**



Beam Angle = 71 deg.

Based on 50% of maximum illuminance.

Luminaire

Lamp				Report	
No. of lamps	1	Voltage (V)	220.62	Filename	D:\배광\16data\포스라이팅\플레넷 원형투광등 80W 5700K PHB-08012A-DA 3005 0331.jdt
Lamp flux (lm)	9972	Current (A)	0.379	Operator	
Total flux (lm)	9972	Power Factor	0.94	Date	2016-03-31 오후 2:49:35

Coefficient of Utilization

	Refl. Ceiling (%)	80%	80%	80%	70%	70%	70%	50%	50%	50%	30%	30%	30%	10%	10%	10%	0%
	Refl. Wall (%)	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
Eff. Floor Cavity	Refl.	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%
Room CR	0	1.22	1.22	1.22	1.19	1.19	1.19	1.13	1.13	1.13	1.09	1.09	1.09	1.04	1.04	1.04	1.02
Room CR	1	1.08	1.04	1.00	1.05	1.02	0.99	1.01	0.98	0.96	0.97	0.95	0.93	0.94	0.92	0.90	0.88
Room CR	2	0.95	0.88	0.83	0.93	0.87	0.82	0.89	0.84	0.80	0.86	0.82	0.78	0.83	0.79	0.76	0.74
Room CR	3	0.83	0.75	0.69	0.82	0.74	0.68	0.79	0.72	0.67	0.76	0.71	0.66	0.73	0.69	0.65	0.63
Room CR	4	0.74	0.65	0.59	0.73	0.64	0.58	0.70	0.63	0.57	0.68	0.62	0.57	0.65	0.60	0.56	0.54
Room CR	5	0.66	0.57	0.51	0.65	0.57	0.50	0.63	0.55	0.50	0.61	0.54	0.49	0.59	0.53	0.49	0.47
Room CR	6	0.60	0.51	0.44	0.59	0.50	0.44	0.57	0.49	0.44	0.55	0.48	0.43	0.54	0.48	0.43	0.41
Room CR	7	0.54	0.45	0.39	0.53	0.45	0.39	0.52	0.44	0.39	0.50	0.44	0.39	0.49	0.43	0.38	0.36
Room CR	8	0.50	0.41	0.35	0.49	0.41	0.35	0.47	0.40	0.35	0.46	0.40	0.35	0.45	0.39	0.34	0.32
Room CR	9	0.46	0.37	0.32	0.45	0.37	0.32	0.44	0.37	0.32	0.43	0.36	0.31	0.42	0.36	0.31	0.29
Room CR	10	0.42	0.34	0.29	0.42	0.34	0.29	0.41	0.34	0.29	0.40	0.33	0.29	0.39	0.33	0.29	0.27