

TEST REPORT

1. Applicant

Client Name : 포스라이팅

Address :

Date of Receipt : 2016-03-31 오후 6:10:27

2. Purpose of Report :

3. Test Standard / Item : /

4. Test Period : 2016-03-31 오후 5:49:30 ~ 2016-03-31 오후 6:07:22

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 사각투광등 150W PFL-15034C-DA
Model / Rating :
Model :
Rating :

Confirmation	Test by Eunyeong.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.
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 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 사각투광등 150W PFL-15034C-DA		
Test Item	Unit	Result	Memo
Beam Distribution Test	-	See attachment	
ATHD	%	10.8	
CIE 1931 Cxy		0.0000, 0.0000	
Correlated Color Temperature	K	0	
Ra	-	0	
Power Factor	%	0.970	
Input Voltage	V	220.640	
Input Current	A	0.691	
Input Watt	W	147.59	
Lamp Flux	lm	15650.2	
Efficient	lm/W	105.82	
Illuminance	lx	21975	1 m
		5494	2 m
		2442	3 m

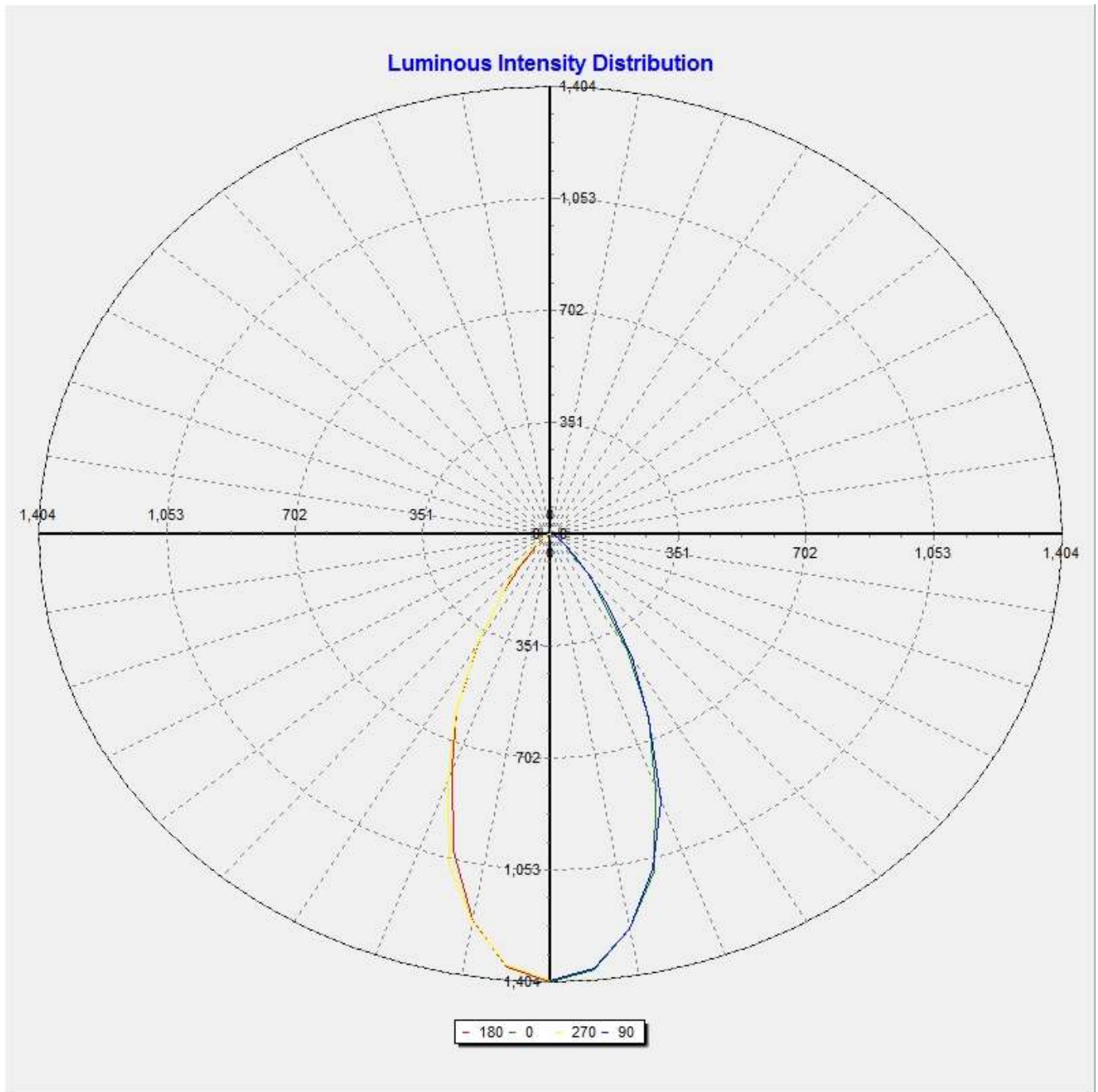
* This test result is for the sample provided by the client.

Sample photo



Luminaire

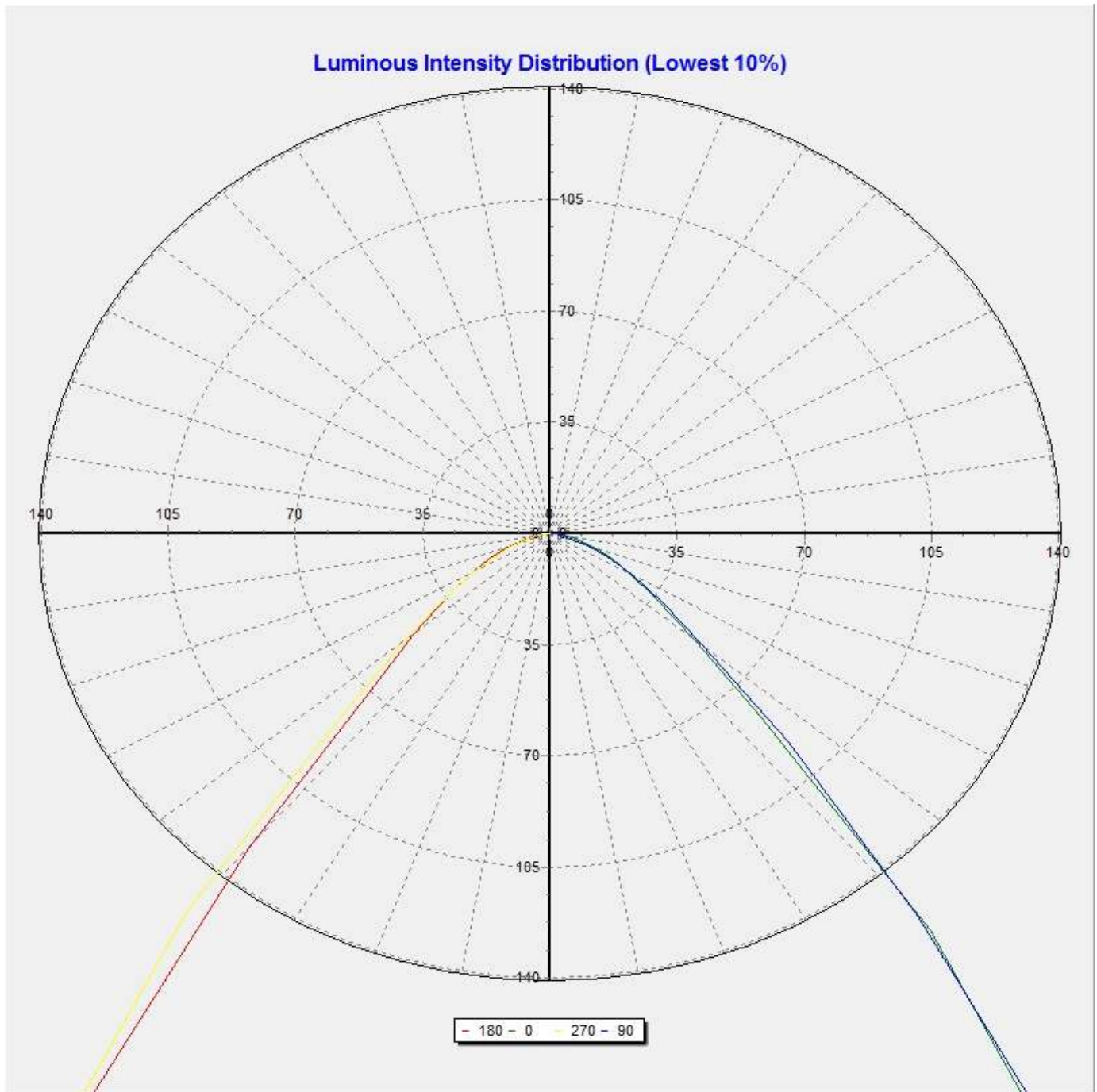
Lamp		Report	
No. of lamps	1	Filename	D:\배광\16data\포스라이팅\플레넷 사각투광등 150W PLF-15034C-DA.jdt
Lamp flux (lm)	15650	Operatont (A)	0.691
Total flux (lm)	15650	Date	2016-03-31 오후 6:10:27
		Power Factor	0.97



All luminous intensity values are in Cd/KLm unit.

Luminaire

Lamp		Report	
No. of lamps	1	Filename	D:\배광\16data\포스라이팅\플레넷 사각투광등 150W PLF-15034C-DA.jdt
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Luminaire

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No. of lamps	1	Filename	D:\배광\16data\포스라이팅\플레넷 사각투광등 150W PLF-15034C-DA.jdt
Lamp flux (lm)	15650	Operatont (A)	0.691
Total flux (lm)	15650	Date	2016-03-31 오후 6:10:27
		Power Factor	0.97

Luminous Intensity Data

GWC	0	10	20	30	40	50	60	70	80	90
0	21975.25	21965.06	21953.92	21946.29	21941.17	21935.46	21932.83	21930.01	21927.55	21928.02
5	21466.96	21482.29	21499.62	21505.96	21512.77	21499.50	21480.78	21450.79	21430.82	21405.62
10	19667.45	19757.78	19891.36	19985.77	20084.21	20069.37	20009.45	19867.05	19768.62	19686.87
15	17136.48	16831.47	17537.82	17257.69	17406.10	17439.15	17405.14	17220.15	17065.97	16968.02
20	13269.64	13403.46	13559.40	13685.11	14393.63	13911.27	14485.50	13963.01	14405.50	13880.07
25	9922.21	9491.53	10044.01	9664.09	10264.39	9945.26	10447.07	9975.89	10463.80	9966.11
30	6523.37	6563.77	6700.61	6826.73	6998.71	7092.47	7148.07	7098.62	7079.98	7015.03
35	3925.86	3965.96	4048.63	4151.97	4293.88	4366.63	4433.07	4407.94	4351.54	4285.78
40	2552.39	2284.46	2370.03	2430.00	2508.08	2567.42	2582.41	2547.14	2499.38	2464.63
45	1283.37	1322.38	1550.05	1432.24	1666.26	1525.32	1699.48	1494.44	1642.12	1449.08
50	821.20	797.90	870.12	846.29	920.21	891.46	947.55	883.37	911.54	849.07
55	553.71	560.48	582.22	602.21	613.32	622.53	621.19	609.18	599.71	593.68
60	398.79	405.47	409.13	414.65	420.81	424.52	421.65	418.08	411.59	406.37
65	292.18	295.54	294.45	295.38	292.23	292.21	287.65	283.93	281.95	273.42
70	213.47	195.21	219.20	201.68	219.36	198.03	208.51	183.50	198.50	173.72
75	114.06	108.10	118.17	109.88	120.52	113.75	119.65	104.25	105.89	93.18
80	55.66	57.84	59.94	60.62	62.76	64.02	63.79	60.43	52.01	48.72
85	26.47	17.60	27.46	16.19	25.03	16.28	30.07	20.21	27.00	17.85
90	5.67	7.21	6.58	6.80	6.06	6.41	5.77	6.84	4.80	5.35

Luminaire

Lamp		Report	
No. of lamps	1	Filename	D:\배광\16data\포스라이팅\플레넷 사각투광등 150W PLF-15034C-DA.jdt
Lamp flux (lm)	15650	Operatont (A)	0.691
Total flux (lm)	15650	Date\wer Factor	0.97

2016-03-31 오후 6:10:27

Luminous Intensity Data (Continued)

GWC	100	110	120	130	140	150	160	170	180	190
0	21925.04	21924.09	21919.86	21917.04	21911.43	21904.51	21896.42	21884.78	21975.25	21965.06
5	21398.32	21389.02	21394.96	21384.28	21391.11	21380.12	21371.77	21342.82	21325.29	21310.94
10	19689.76	19725.78	19810.57	19820.84	19793.49	19678.71	19572.01	19443.42	19246.35	19210.67
15	17005.00	17086.26	17169.77	17126.39	17480.24	16761.21	17039.10	16358.58	16058.86	16509.54
20	14347.27	13813.47	14242.65	13618.54	13476.54	13271.83	13139.99	12998.43	12291.18	12666.30
25	10417.72	9839.32	10256.53	9673.98	10016.03	9490.47	9837.94	9313.94	9505.99	9505.21
30	6979.13	6919.59	6919.76	6892.18	6859.32	6756.46	6623.36	6462.68	6214.70	6248.74
35	4271.40	4242.78	4221.48	4208.82	4197.66	4076.22	3984.64	3883.86	3677.00	3644.55
40	2454.81	2459.73	2476.68	2463.67	2428.41	2349.65	2598.70	2190.45	2021.58	2275.61
45	1618.58	1456.92	1640.01	1457.68	1603.44	1377.83	1317.63	1168.29	1099.56	1145.69
50	902.03	869.80	923.40	861.09	890.63	812.16	829.46	802.78	768.46	759.33
55	598.87	601.52	615.18	612.00	598.94	583.96	565.46	545.79	529.09	528.59
60	413.23	417.41	419.02	422.00	417.50	407.29	398.51	395.41	385.72	387.81
65	282.64	285.00	288.68	293.21	290.81	293.19	292.26	292.57	286.03	287.72
70	200.00	184.64	209.71	198.44	219.66	203.31	221.34	197.01	191.36	213.56
75	106.31	105.10	120.10	114.19	121.95	110.92	118.99	106.80	103.12	113.05
80	52.18	60.94	63.86	63.67	62.57	61.44	60.79	58.29	54.10	56.69
85	27.01	19.18	30.29	15.85	26.19	16.49	28.18	18.64	17.61	25.57
90	4.80	6.61	5.71	6.86	5.86	6.52	6.26	6.56	6.91	5.59

Luminaire

Lamp		Report	
No. of lamps	1	Filename	D:\배광\16data\포스라이팅\플레넷 사각투광등 150W PLF-15034C-DA.jdt
Lamp flux (lm)	15650	Operatont (A)	0.691
Total flux (lm)	15650	Date\wer Factor	0.97

2016-03-31 오후 6:10:27

Luminous Intensity Data (Continued)

GWC	200	210	220	230	240	250	260	270	280	290
0	21953.92	21946.29	21941.17	21935.46	21932.83	21930.01	21927.55	21928.02	21925.04	21924.09
5	21291.22	21288.65	21276.30	21281.84	21269.56	21269.55	21254.07	21248.14	21222.48	21216.77
10	19190.86	19240.11	19266.67	19318.27	19329.80	19349.23	19331.81	19320.28	19290.03	19268.37
15	15990.11	16537.64	16067.61	16688.61	16228.47	16769.39	16241.79	16756.47	16224.93	16733.38
20	12190.63	12635.69	12224.34	12706.80	12321.21	12824.07	12412.63	12901.19	12446.31	12890.06
25	9493.03	9527.32	9532.47	9559.91	9534.19	9529.08	9500.51	9524.46	9518.56	9537.53
30	6294.16	6389.95	6414.25	6472.26	6461.46	6433.71	6367.34	6349.67	6322.85	6334.66
35	3629.70	3681.35	3746.19	3829.42	3869.53	3863.96	3822.33	3814.12	3789.42	3791.18
40	1961.38	2275.67	2024.13	2394.52	2130.18	2455.32	2146.44	2430.38	2130.77	2424.51
45	1064.27	1137.61	1089.78	1202.30	1153.12	1255.31	1177.66	1263.24	1178.41	1258.79
50	751.86	749.83	756.04	777.09	788.69	802.69	801.99	804.44	806.34	806.16
55	534.73	538.95	538.61	544.59	544.28	549.49	549.73	545.78	549.80	553.26
60	386.19	387.70	388.97	390.02	387.11	389.80	387.25	383.42	387.90	390.82
65	284.19	283.20	277.87	278.41	272.53	271.41	269.36	262.15	270.01	272.55
70	194.73	215.24	193.89	209.98	184.70	196.45	173.32	186.76	174.00	197.23
75	106.75	116.61	108.81	119.55	109.27	109.25	94.00	97.82	94.24	109.50
80	58.40	59.40	59.00	74.74	61.10	58.20	48.77	45.03	48.93	57.92
85	16.88	24.77	13.58	13.44	14.97	28.66	18.09	23.39	18.28	28.69
90	6.92	5.71	7.95	5.88	6.69	5.54	7.29	4.30	7.34	5.68

Luminaire

Lamp		Report	
No. of lamps	1	Filename	D:\배광\16data\포스라이팅\플레넷 사각투광등 150W PLF-15034C-DA.jdt
Lamp flux (lm)	15650	Operatont (A)	0.691
Total flux (lm)	15650	Date	2016-03-31 오후 6:10:27
		ower Factor	0.97

Luminous Intensity Data (Continued)

GWC	300	310	320	330	340	350	360
0	21919.86	21917.04	21911.43	21904.51	21896.42	21884.78	21975.25
5	21193.42	21194.40	21181.65	21204.04	21213.88	21248.46	21466.96
10	19234.73	19230.91	19210.44	19233.24	19238.85	19296.29	19667.45
15	16224.61	16693.09	16113.18	16601.17	16081.49	16667.19	17136.48
20	12399.08	12794.71	12318.97	12729.76	12306.65	12815.92	13269.64
25	9516.08	9543.94	9543.66	9554.50	9540.46	9578.11	9922.21
30	6332.58	6391.53	6416.11	6423.02	6335.03	6278.01	6523.37
35	3770.98	3779.58	3772.98	3746.81	3708.68	3718.57	3925.86
40	2119.81	2400.01	2093.99	2367.05	2080.90	2390.98	2552.39
45	1164.59	1232.83	1137.39	1205.00	1125.06	1209.43	1283.37
50	802.24	790.61	777.99	774.62	773.50	782.40	821.20
55	552.79	553.22	547.39	544.68	535.23	534.75	553.71
60	391.89	394.90	389.57	388.52	388.94	392.51	398.79
65	274.58	279.26	280.59	284.22	285.32	289.26	292.18
70	185.21	210.87	194.00	215.97	193.30	211.52	213.47
75	109.53	119.44	108.51	116.52	107.93	113.78	114.06
80	61.18	74.64	59.79	59.39	58.39	56.89	55.66
85	15.14	13.37	13.37	24.92	16.42	26.12	26.47
90	7.40	5.68	7.06	6.04	7.87	5.88	5.67

Luminaire

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Luminous Flux Table

Total Lamp Lumens: 15650
 Luminaire Efficiency (lm/W) 16134.21
 CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	131.14	131.14	0.84	0.84
5	1019.53	1150.67	7.35	7.35
10	1859.06	3009.73	19.23	19.23
15	2378.20	5387.92	34.43	34.43
20	2467.06	7854.98	50.19	50.19
25	2255.88	10110.87	64.61	64.61
30	1811.44	11922.31	76.18	76.18
35	1248.64	13170.95	84.16	84.16
40	825.55	13996.50	89.43	89.43
45	514.69	14511.19	92.72	92.72
50	346.47	14857.66	94.94	94.94
55	255.12	15112.78	96.57	96.57
60	190.15	15302.93	97.78	97.78
65	140.98	15443.90	98.68	98.68
70	102.84	15546.74	99.34	99.34
75	58.38	15605.12	99.71	99.71
80	31.82	15636.94	99.92	99.92
85	11.52	15648.46	99.99	99.99
90	1.72	15650.18	100.00	100.00

Luminaire

Lamp

Report

No. of lamps

1

Filename: D:\배광\16data\포스라이팅\플레넷 사각투광등 150W PLF-15034C-DA.jdt

Lamp flux (lm)

15650

Operatont (A)

0.691

Total flux (lm)

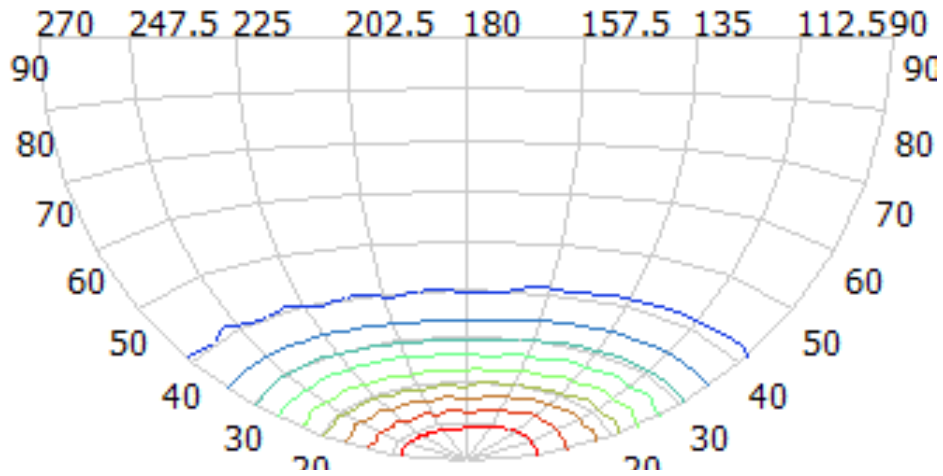
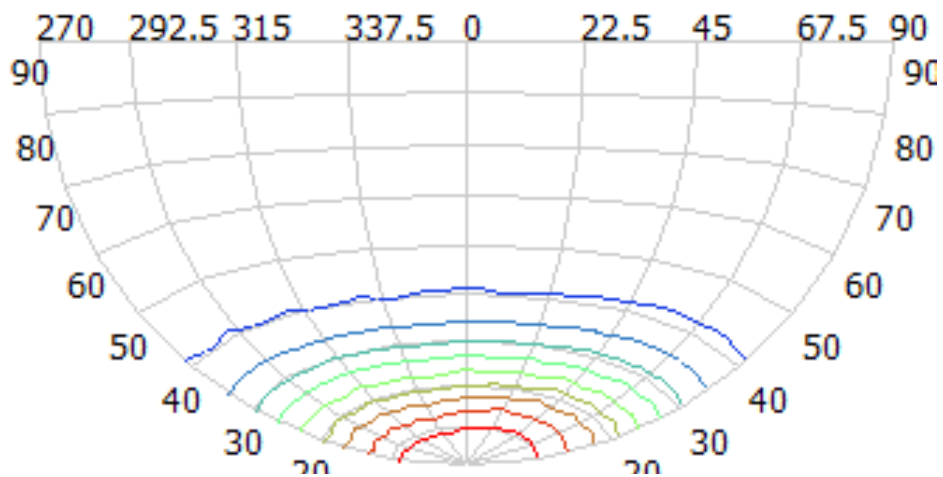
15650

Date\wer Factor

0.97

2016-03-31 오후 6:10:27

IsoCandela (Type C)

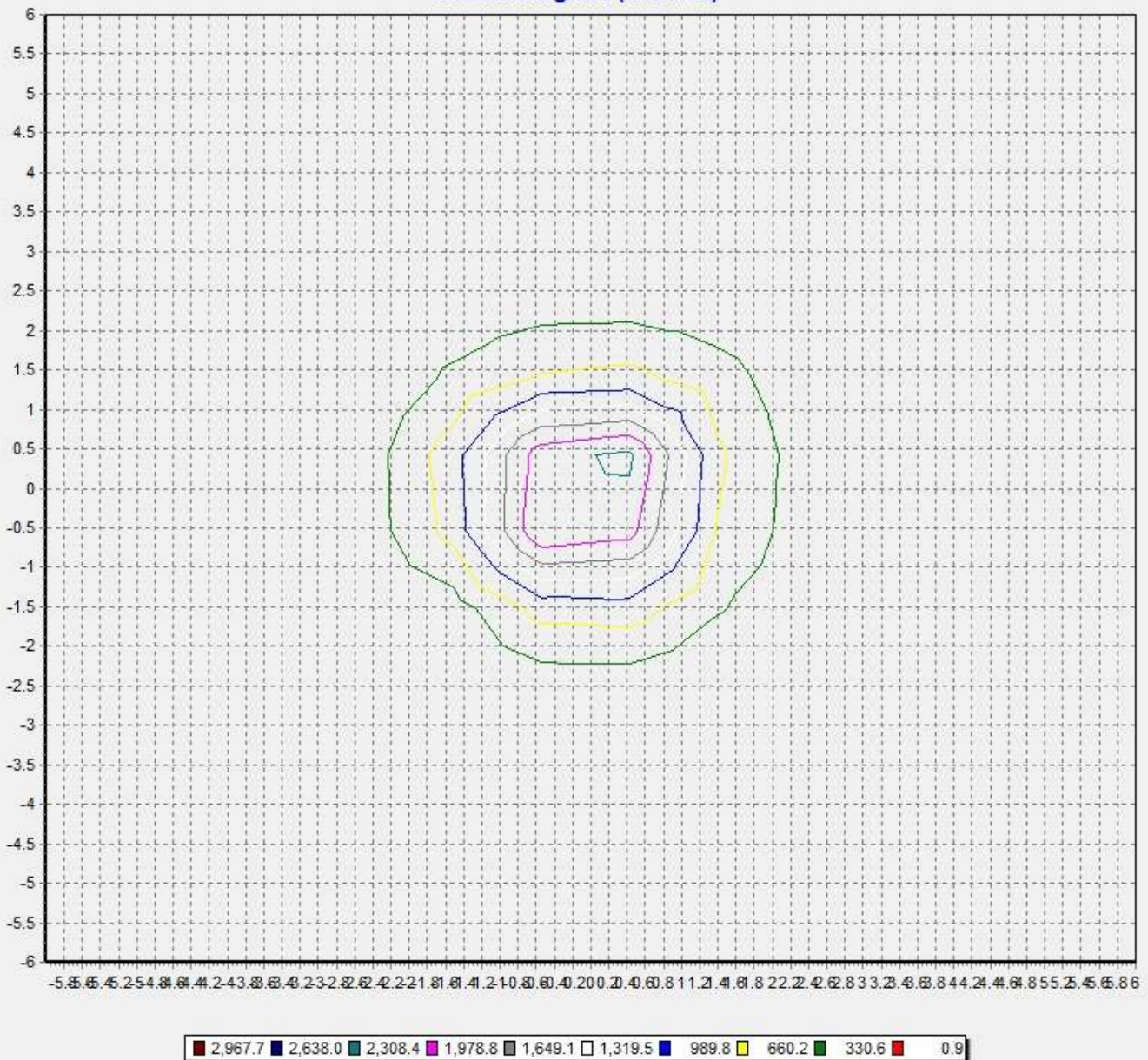


	4	~	2201		10990	~	13187
	2201	~	4398		13187	~	15384
	4398	~	6596		15384	~	17581
	6596	~	8793		17581	~	19778
	8793	~	10990		19778	~	21975

Luminaire

Lamp		Report	
No. of lamps	1	Filename	D:\배광\16data\포스라이팅\플레넷 사각투광등 150W PLF-15034C-DA.jdt
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IsoLux Diagram (Ground)

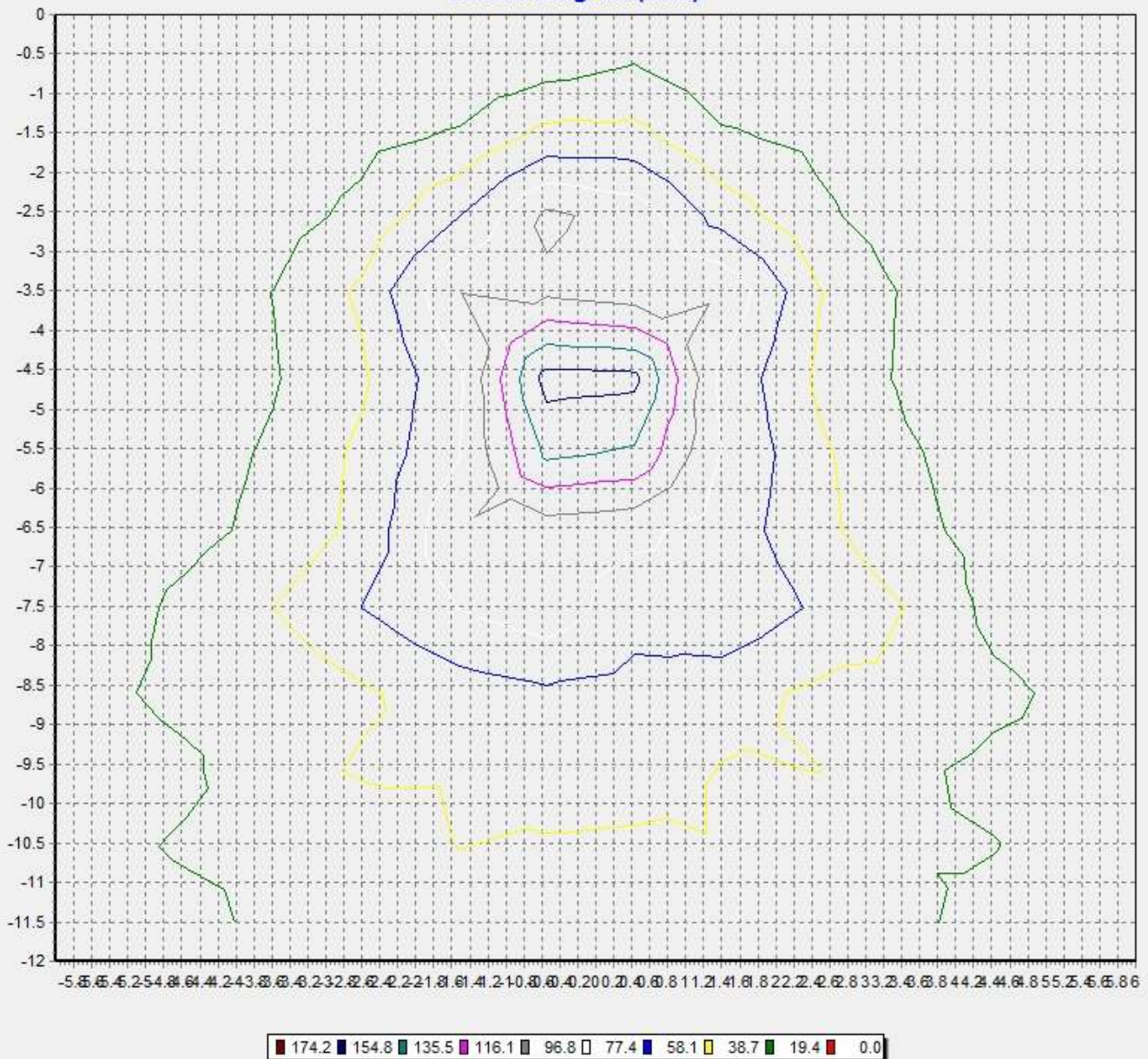


Pole Height (m): 2.7
 Area Width (m): 12

Luminaire

Lamp		Report	
No. of lamps	1	Filename	D:\배광\16data\포스라이팅\플레넷 사각투광등 150W PLF-15034C-DA.jdt
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		Power Factor	0.97

IsoLux Diagram (Wall)



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

Luminaire

Lamp

No. of lamps	1	Voltage (V)	220.64
Lamp flux (lm)	15650	Current (A)	0.691
Total flux (lm)	15650	Power Factor	0.97

Report

Filename	D:\배광\16data\포스라이팅\플레넷 사각투광등 150W PLF-15034C-DA.jdt
Operator	
Date	2016-03-31 오후 6:10:27

Illuminance Levels (Ground)

6.00	0.96	1.32	1.20	1.67	3.05	3.53	3.66	3.57	3.08	1.68	1.26	1.33	0.97
5.00	1.32	1.37	2.95	4.21	4.02	7.25	7.84	7.34	4.05	4.25	2.95	1.40	1.33
4.00	1.29	2.95	3.34	8.10	8.74	17.42	19.19	17.92	8.86	8.14	3.36	2.94	1.31
3.00	1.74	4.12	8.05	10.95	20.98	35.10	44.66	37.90	21.66	10.86	8.06	4.13	1.72
2.00	3.02	4.04	8.60	20.13	100.48	162.98	439.89	169.62	100.45	20.35	8.59	4.09	3.04
1.00	3.44	6.81	16.26	32.64	158.61	795.93	1896.82	796.22	158.89	34.67	16.26	6.88	3.50
0.00	3.51	7.10	17.33	36.96	387.10	1789.00	3014.44	1910.18	407.77	41.27	18.47	7.40	3.62
-1.00	3.36	6.59	15.35	29.48	142.77	750.96	1867.28	748.94	144.40	30.63	15.61	6.68	3.36
-2.00	2.89	3.95	7.97	18.16	84.63	151.49	396.75	146.59	89.30	18.61	8.04	3.94	2.90
-3.00	1.69	3.90	7.21	9.82	18.67	31.10	40.52	31.90	19.06	10.03	7.35	3.92	1.66
-4.00	1.25	2.75	3.20	7.23	8.03	16.06	18.11	16.09	8.10	7.37	3.17	2.78	1.28
-5.00	1.26	1.36	2.75	3.91	3.83	6.77	7.25	6.72	3.81	3.94	2.78	1.32	1.28
-6.00	0.94	1.26	1.20	1.64	2.86	3.34	3.46	3.32	2.87	1.58	1.19	1.27	0.92
	-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

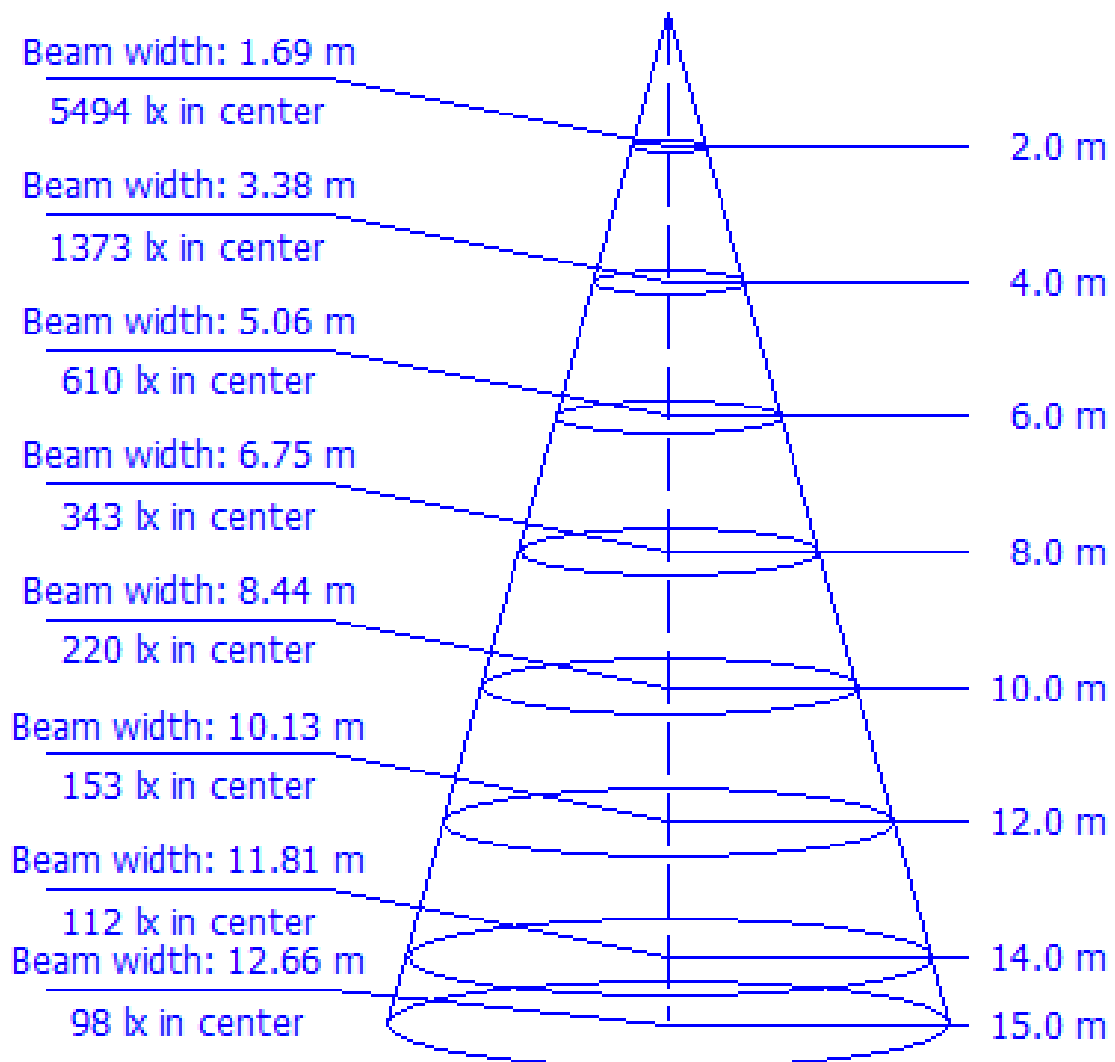
Illum. (Max.): 3014
 All illuminance level values are in lux.
 Illum. (Min.): 0.92
 Illum. Avg.: 107

Total Optical Solution Provider

Luminaire

Lamp		Report	
No. of lamps	1	Filename	D:\배광\16data\포스라이팅\플레넷 사각투광등 150W PLF-15034C-DA.jdt
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Total flux (lm)	15650	Date	2016-03-31 오후 6:10:27
		Power Factor	0.97

Illuminance Cone Diagram



Beam Angle = 46 deg.

Based on 50% of maximum illuminance.

Luminaire

Lamp

No. of lamps	1	Voltage (V)	220.64
Lamp flux (lm)	15650	Current (A)	0.691
Total flux (lm)	15650	Power Factor	0.97

Report

Filename	D:\배광\16data\포스라이팅\플레넷 사각투광등 150W PLF-15034C-DA.jdt
Operator	
Date	2016-03-31 오후 6:10:27

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	1.20	1.20	1.20	1.17	1.17	1.17	1.12	1.12	1.12	1.07	1.07	1.07	1.02	1.02	1.02	1.00
Room CR	1	1.11	1.08	1.06	1.09	1.06	1.04	1.05	1.03	1.01	1.01	0.99	0.98	0.97	0.96	0.95	0.93
Room CR	2	1.03	0.99	0.95	1.01	0.97	0.94	0.98	0.95	0.92	0.95	0.92	0.90	0.92	0.90	0.88	0.87
Room CR	3	0.96	0.91	0.87	0.94	0.90	0.86	0.92	0.88	0.85	0.89	0.86	0.83	0.87	0.84	0.82	0.80
Room CR	4	0.90	0.84	0.80	0.88	0.83	0.79	0.86	0.82	0.78	0.84	0.80	0.77	0.82	0.79	0.76	0.75
Room CR	5	0.84	0.78	0.74	0.83	0.78	0.73	0.81	0.76	0.73	0.80	0.75	0.72	0.78	0.74	0.71	0.70
Room CR	6	0.79	0.73	0.69	0.78	0.73	0.68	0.77	0.72	0.68	0.75	0.71	0.67	0.74	0.70	0.67	0.66
Room CR	7	0.74	0.68	0.64	0.74	0.68	0.64	0.73	0.67	0.64	0.71	0.67	0.63	0.70	0.66	0.63	0.62
Room CR	8	0.70	0.64	0.60	0.70	0.64	0.60	0.69	0.64	0.60	0.68	0.63	0.60	0.67	0.63	0.59	0.58
Room CR	9	0.67	0.61	0.57	0.66	0.61	0.57	0.65	0.60	0.57	0.64	0.60	0.56	0.64	0.59	0.56	0.55
Room CR	10	0.63	0.58	0.54	0.63	0.57	0.54	0.62	0.57	0.54	0.61	0.57	0.53	0.61	0.56	0.53	0.52