

TEST REPORT

1. Applicant

Client Name : 포스라이팅

Address :

Date of Receipt : 2016-03-31 오후 5:29:48

2. Purpose of Report :

3. Test Standard / Item : /

4. Test Period : 2016-03-31 오후 5:09:40 ~ 2016-03-31 오후 5:27:33

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 120W PFL-12034C-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 120W PFL-12034C-DA		
Test Item	Unit	Result	Memo
Beam Distribution Test	-	See attachment	
ATHD	%	7.9	
CIE 1931 Cxy		0.0000, 0.0000	
Correlated Color Temperature	K	0	
Ra	-	0	
Power Factor	%	0.970	
Input Voltage	V	220.610	
Input Current	A	0.558	
Input Watt	W	119.27	
Lamp Flux	lm	13083.4	
Efficient	lm/W	109.57	
Illuminance	lx	18320	1 m
		4580	2 m
		2036	3 m

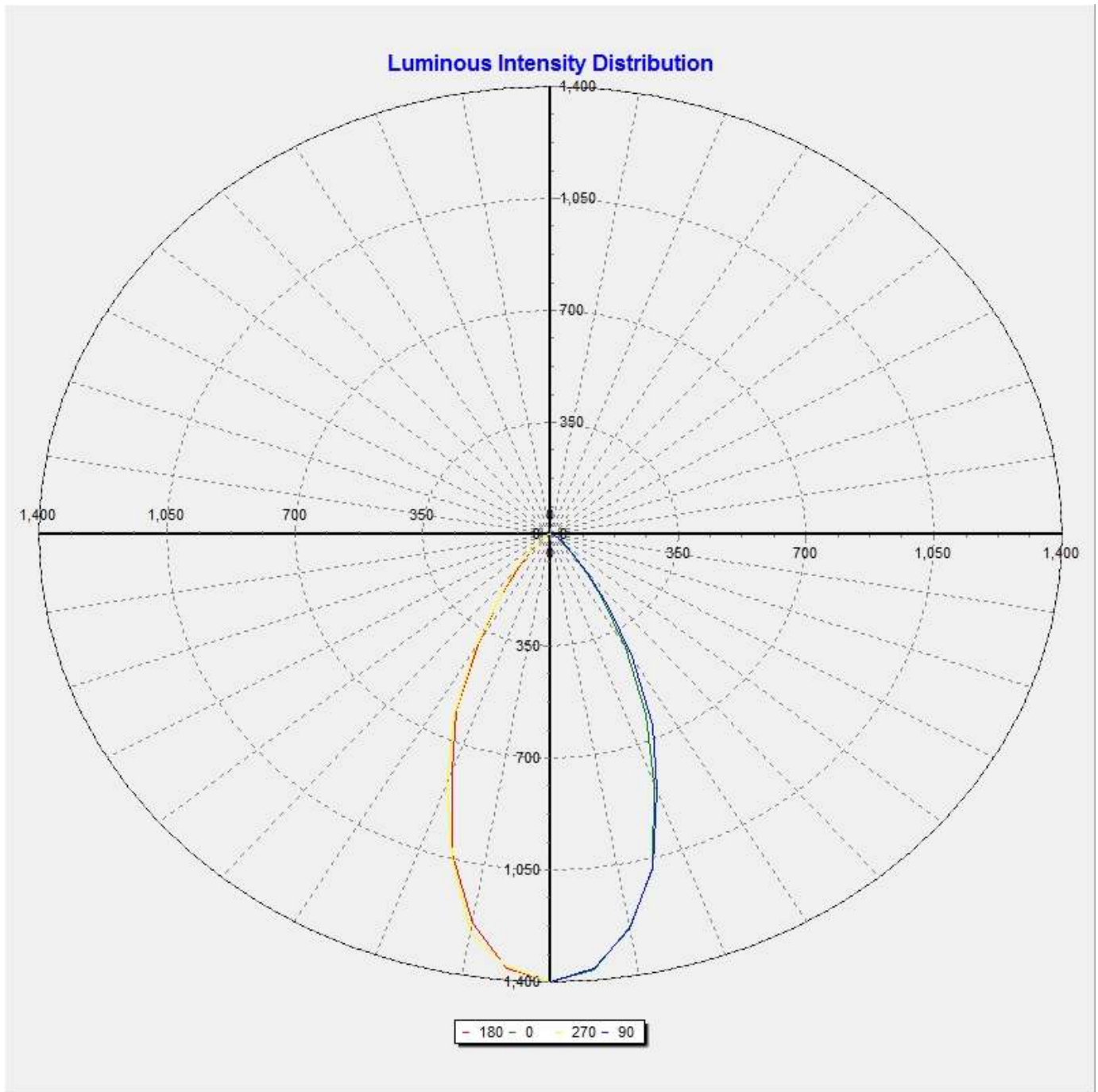
* This test result is for the sample provided by the client.

Sample photo



Luminaire

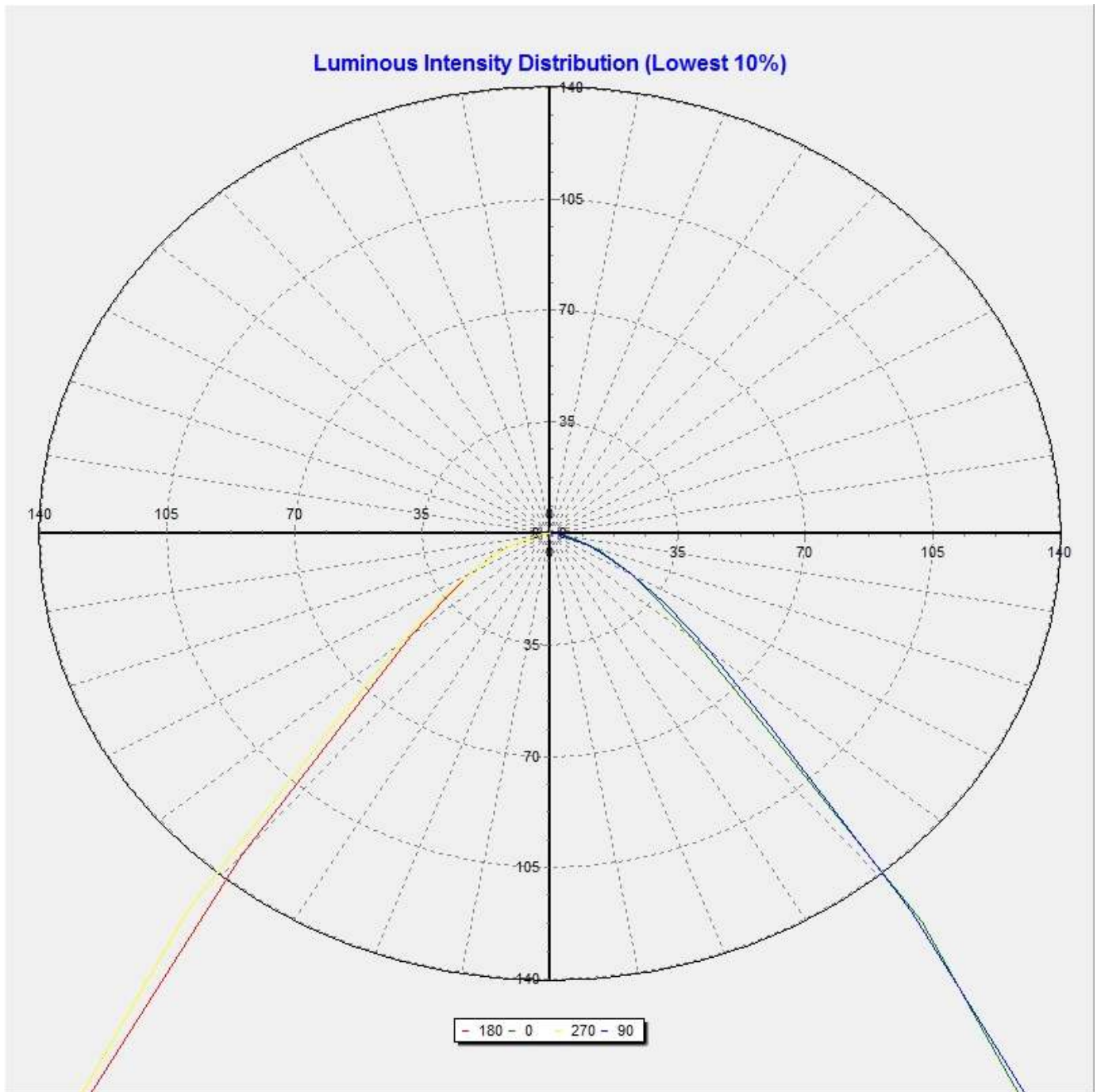
Lamp		Report	
No. of lamps	1	Filename	D:\배광\16data\포스라이팅\플레넷 사각투광등 120W PLF-12034C-DA.jdt
Lamp flux (lm)	13083	Operatont (A)	0.558
Total flux (lm)	13083	Date	2016-03-31 오후 5:29:48
		Power Factor	0.97



All luminous intensity values are in Cd/KLm unit.

Luminaire

Lamp		Report	
No. of lamps	1	Filename	D:\배광\16data\포스라이팅\플레넷 사각투광등 120W PLF-12034C-DA.jdt
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Luminaire

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No. of lamps	1	Filename	D:\배광\16data\포스라이팅\플레넷 사각투광등 120W PLF-12034C-DA.jdt
Lamp flux (lm)	13083	Operatont (A)	0.558
Total flux (lm)	13083	Date\wer Factor	0.97

2016-03-31 오후 5:29:48

Luminous Intensity Data

GWC	0	10	20	30	40	50	60	70	80	90
0	18320.30	18316.93	18313.56	18311.72	18309.56	18308.99	18309.56	18309.48	18309.89	18311.17
5	17882.61	17893.06	17911.42	17915.43	17918.96	17911.18	17902.13	17881.65	17869.94	17856.55
10	16328.90	16387.69	16497.90	16588.17	16667.43	16678.99	16635.90	16530.18	16457.26	16397.00
15	14163.72	13873.07	14459.98	14215.71	14767.39	14414.90	14794.74	14287.58	14556.25	14108.62
20	10896.21	10616.75	11123.70	10849.08	11389.37	11069.54	11519.61	11154.01	11516.26	11132.79
25	8135.50	8167.11	8259.85	8327.40	8443.08	8549.03	8619.10	8610.96	8630.95	8624.67
30	5374.12	5417.46	5530.85	5622.04	5744.98	5816.29	5883.68	5861.11	5859.27	5822.01
35	3226.64	3261.61	3319.95	3404.80	3509.16	3586.03	3636.36	3615.82	3590.87	3557.57
40	2080.96	1848.60	2157.06	1962.27	2302.47	2082.30	2375.61	2079.80	2327.88	2020.47
45	1041.08	1006.53	1106.91	1078.39	1199.42	1150.82	1216.35	1122.98	1189.22	1116.03
50	657.02	672.31	685.58	727.59	745.33	751.52	768.17	759.41	754.34	748.15
55	457.33	465.50	477.28	481.97	498.38	506.69	511.96	511.46	508.85	507.91
60	336.90	341.20	343.54	346.08	343.58	352.80	356.45	352.14	344.06	340.35
65	239.98	243.95	246.36	247.67	243.63	244.85	241.07	237.29	235.14	232.52
70	177.52	162.68	182.76	166.13	183.21	165.11	175.69	156.68	171.21	151.29
75	90.36	87.99	96.25	89.73	100.34	92.85	97.09	86.72	88.58	78.46
80	44.37	46.68	48.87	48.31	60.34	51.37	49.75	48.83	42.67	41.47
85	21.36	15.23	22.56	13.43	12.25	9.34	23.96	16.80	22.77	17.56
90	4.06	5.18	4.66	4.68	4.47	4.16	4.55	5.30	3.94	5.11

Luminaire

Lamp		Report	
No. of lamps	1	Filename	D:\배광\16data\포스라이팅\플레넷 사각투광등 120W PLF-12034C-DA.jdt
Lamp flux (lm)	13083	Operatont (A)	0.558
Total flux (lm)	13083	Date	2016-03-31 오후 5:29:48
		ower Factor	0.97

Luminous Intensity Data (Continued)

GWC	100	110	120	130	140	150	160	170	180	190
0	18312.13	18313.10	18314.22	18313.65	18313.00	18311.82	18310.76	18308.45	18320.30	18316.93
5	17854.14	17849.25	17859.28	17866.17	17875.16	17876.04	17880.30	17875.09	17810.97	17813.78
10	16412.33	16449.79	16534.43	16562.83	16553.92	16480.92	16417.15	16333.14	16142.78	16464.71
15	14512.84	14223.25	14697.44	14304.51	14632.14	14060.57	14314.39	13768.16	13515.94	13504.48
20	11497.90	11113.85	11455.04	11003.94	11302.17	10767.09	11048.67	10590.08	10349.38	10691.31
25	8634.08	8582.01	8568.56	8485.60	8415.49	8335.02	8266.76	8195.26	7975.79	7983.76
30	5812.09	5778.59	5787.90	5765.21	5745.52	5670.38	5558.24	5433.79	5207.60	5246.58
35	3558.14	3544.87	3544.02	3536.40	3513.07	3428.24	3363.71	3287.79	3120.20	3098.39
40	2309.94	2048.89	2330.46	2069.80	2301.37	1977.96	2186.89	1855.23	1722.07	1953.85
45	1185.35	1113.60	1216.46	1141.80	1199.67	1083.10	1110.13	992.30	933.22	989.04
50	752.91	763.31	768.90	751.91	745.33	723.88	683.03	668.32	643.33	644.77
55	509.66	513.78	515.96	507.27	498.97	484.80	470.72	464.07	448.46	451.55
60	345.15	355.06	359.53	356.32	344.52	345.09	344.20	339.87	332.03	335.78
65	236.65	239.03	244.83	246.62	245.94	248.97	248.09	245.52	238.14	242.02
70	172.62	158.45	177.22	166.12	184.52	167.91	183.16	163.28	159.49	176.42
75	89.98	87.64	98.28	94.22	101.54	91.51	97.71	88.34	83.50	92.36
80	43.32	49.48	51.16	51.43	61.01	49.02	49.38	46.88	43.32	45.22
85	23.23	16.95	23.73	13.43	12.91	14.19	22.97	15.38	13.98	20.98
90	3.98	5.26	4.60	4.67	4.71	4.73	4.86	5.29	3.99	4.45

Luminaire

Lamp		Report	
No. of lamps	1	Filename	D:\배광\16data\포스라이팅\플레넷 사각투광등 120W PLF-12034C-DA.jdt
Lamp flux (lm)	13083	Operatont (A)	0.558
Total flux (lm)	13083	Date	2016-03-31 오후 5:29:48
		ower Factor	0.97

Luminous Intensity Data (Continued)

GWC	200	210	220	230	240	250	260	270	280	290
0	18313.56	18311.72	18309.56	18308.99	18309.56	18309.48	18309.89	18311.17	18312.13	18313.10
5	17800.30	17809.37	17804.57	17805.31	17796.39	17794.62	17774.74	17758.51	17740.79	17734.45
10	16151.11	16514.05	16230.31	16261.92	16253.49	16238.56	16193.17	16484.61	16133.97	16437.52
15	13525.24	13599.00	13651.92	14149.69	13730.37	14131.15	13653.68	13628.72	13603.47	13624.81
20	10321.27	10729.28	10401.96	10815.81	10461.78	10862.13	10474.49	10857.99	10464.62	10824.36
25	7983.15	8033.53	8054.96	8109.96	8085.79	8084.42	8053.50	8059.61	8029.97	8019.87
30	5288.55	5380.06	5415.68	5496.76	5506.89	5500.03	5436.07	5404.56	5363.87	5356.10
35	3089.28	3139.08	3212.25	3293.51	3315.63	3314.38	3269.48	3245.57	3220.29	3211.39
40	1701.64	1975.86	1775.03	2080.74	1852.92	2115.20	1782.97	2023.45	1756.05	2059.82
45	925.67	1000.95	960.40	1057.75	977.70	1070.98	1011.77	1072.65	1002.42	1055.74
50	638.15	654.14	660.07	664.66	684.23	694.56	695.58	693.54	689.99	688.67
55	453.86	457.48	459.97	469.20	475.53	481.38	481.98	479.82	479.70	480.43
60	334.83	333.43	327.43	336.90	338.75	332.50	328.34	325.33	328.06	331.72
65	241.59	241.24	236.84	236.27	232.74	229.87	228.44	224.63	228.12	230.24
70	161.22	180.02	162.55	176.43	155.93	168.97	150.39	163.37	150.79	168.74
75	86.94	96.20	90.15	98.79	87.55	91.00	79.01	82.66	79.42	91.71
80	47.38	59.45	48.16	60.10	48.18	47.54	41.87	40.67	42.15	47.80
85	14.78	12.51	8.69	12.47	13.84	24.84	15.90	21.63	15.93	24.89
90	4.97	4.87	4.49	4.66	5.32	4.40	5.24	3.77	5.47	4.32

Luminaire

Lamp		Report	
No. of lamps	1	Filename	D:\배광\16data\포스라이팅\플레넷 사각투광등 120W PLF-12034C-DA.jdt
Lamp flux (lm)	13083	Operatont (A)	0.558
Total flux (lm)	13083	Date	2016-03-31 오후 5:29:48
		ower Factor	0.97

Luminous Intensity Data (Continued)

GWC	300	310	320	330	340	350	360
0	18314.22	18313.65	18313.00	18311.82	18310.76	18308.45	18320.30
5	17719.93	17721.37	17712.40	17734.54	17744.16	17771.59	17882.61
10	16121.04	16425.08	16102.44	16414.25	16088.07	16433.43	16328.90
15	13621.84	13591.74	13515.78	13466.18	13413.34	13445.08	14163.72
20	10396.20	10726.93	10297.94	10605.96	10204.56	10601.62	10896.21
25	7978.28	7980.65	7946.93	7932.96	7881.27	7893.11	8135.50
30	5334.77	5352.15	5341.86	5341.36	5248.72	5197.13	5374.12
35	3180.79	3194.20	3171.49	3137.78	3091.34	3082.58	3226.64
40	1803.80	2037.54	1782.04	1998.24	1737.36	1980.12	2080.96
45	967.60	1052.77	969.61	1021.04	939.32	997.32	1041.08
50	678.14	660.16	662.09	656.48	633.55	634.51	657.02
55	474.79	467.31	456.06	450.19	450.67	448.53	457.33
60	339.42	336.81	327.34	331.99	331.58	333.49	336.90
65	233.40	237.12	237.05	240.98	240.39	239.73	239.98
70	156.08	176.13	162.59	179.18	162.20	176.37	177.52
75	88.06	98.23	89.75	96.01	86.77	92.28	90.36
80	48.09	59.78	47.93	59.73	47.51	46.02	44.37
85	13.16	12.02	8.43	12.57	14.81	20.81	21.36
90	5.23	4.51	4.49	4.48	4.89	4.16	4.06

Luminaire

Lamp		Report	
No. of lamps	1	Filename	D:\배광\16data\포스라이팅\플레넷 사각투광등 120W PLF-12034C-DA.jdt
Lamp flux (lm)	13083	Operatont (A)	0.558
Total flux (lm)	13083	Date	2016-03-31 오후 5:29:48
		ower Factor	0.97

Luminous Flux Table

Total Lamp Lumens: 13083
 Luminaire Efficiency (lm/W) 13487.99
 CIE Classification: Direct

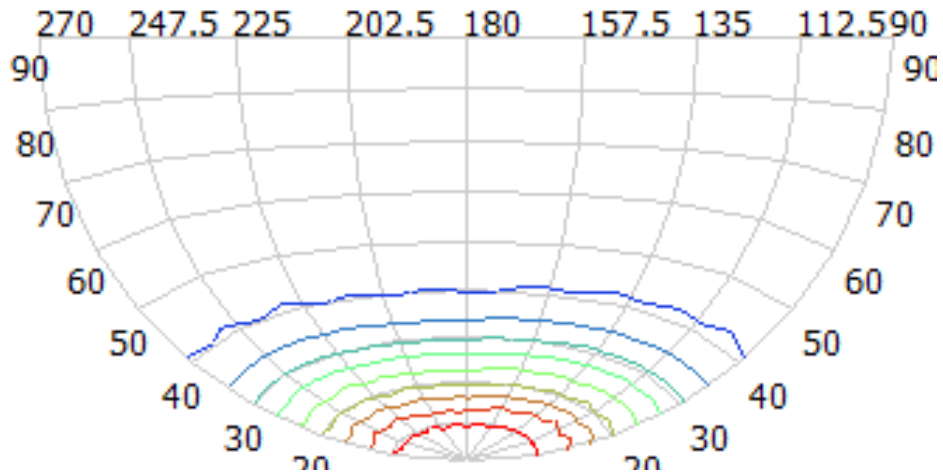
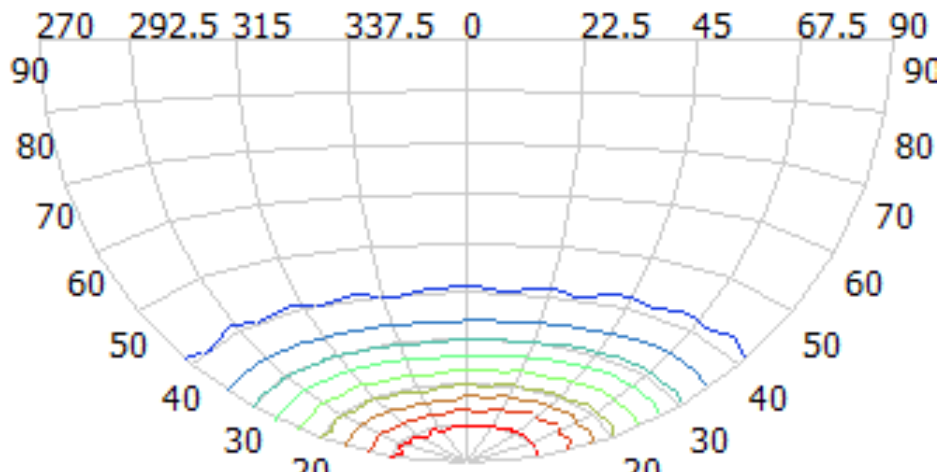
Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	109.51	109.51	0.84	0.84
5	851.59	961.10	7.35	7.35
10	1559.96	2521.06	19.27	19.27
15	1984.30	4505.36	34.44	34.44
20	2031.67	6537.02	49.96	49.96
25	1904.30	8441.32	64.52	64.52
30	1514.25	9955.57	76.09	76.09
35	1046.88	11002.46	84.09	84.10
40	709.14	11711.60	89.51	89.52
45	412.10	12123.69	92.66	92.67
50	292.80	12416.50	94.90	94.90
55	215.27	12631.76	96.55	96.55
60	161.30	12793.06	97.78	97.78
65	118.77	12911.83	98.69	98.69
70	86.60	12998.43	99.35	99.35
75	48.06	13046.49	99.72	99.72
80	26.47	13072.96	99.92	99.92
85	9.11	13082.07	99.99	99.99
90	1.28	13083.35	100.00	100.00


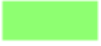








Luminaire

Lamp		Report	
No. of lamps	1	Filename	D:\배광\16data\포스라이팅\플레넷 사각투광등 120W PLF-12034C-DA.jdt
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2016-03-31 오후 5:29:48

IsoCandela (Type C)

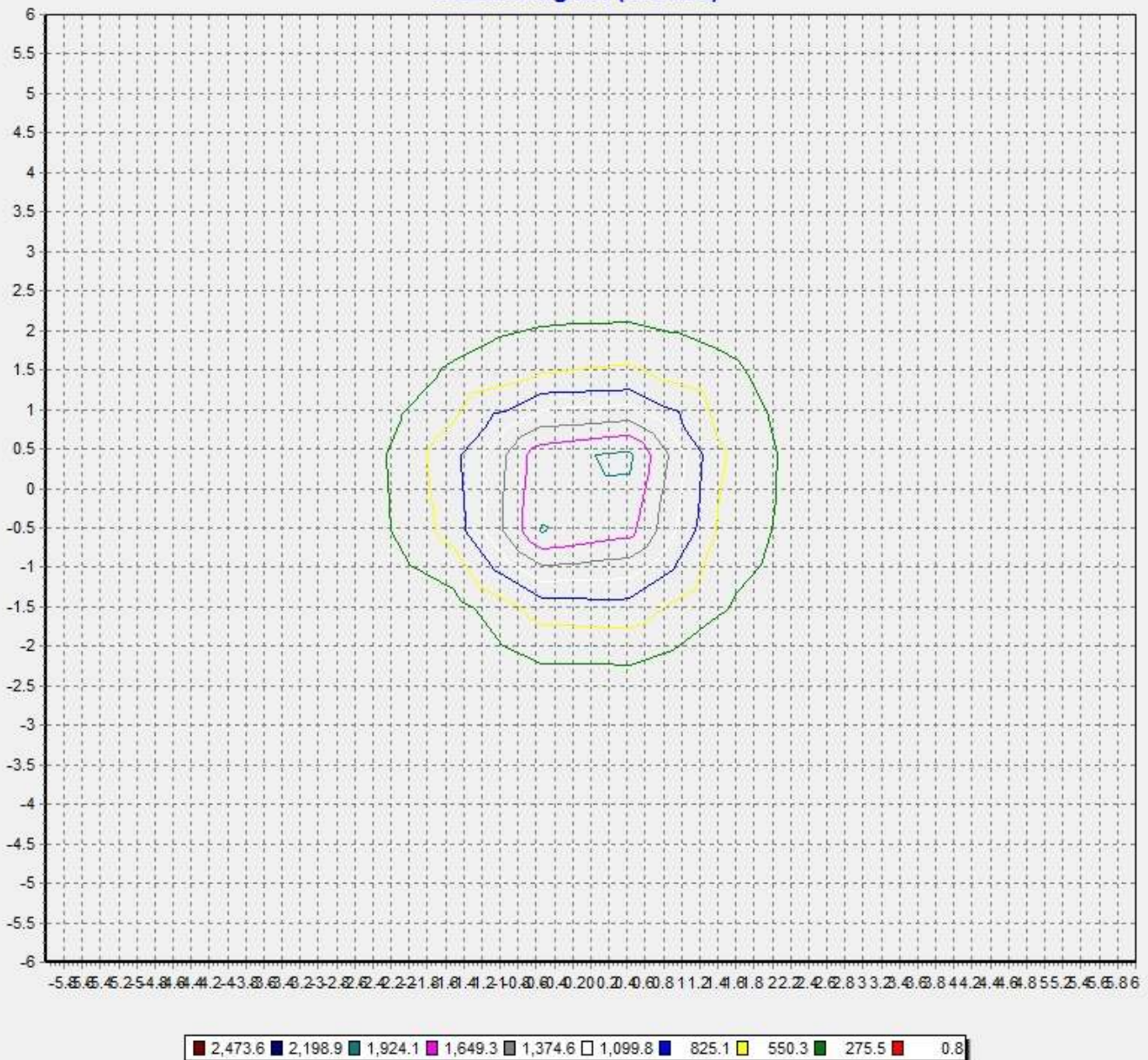


	4	~	1835		9162	~	10994
	1835	~	3667		10994	~	12825
	3667	~	5499		12825	~	14657
	5499	~	7330		14657	~	16489
	7330	~	9162		16489	~	18320

Luminaire

Lamp		Report	
No. of lamps	1	Filename	D:\배광\16data\포스라이팅\플레닛 사각투광등 120W PLF-12034C-DA.jdt
Lamp flux (lm)	13083	Operatont (A)	0.558
Total flux (lm)	13083	Date	2016-03-31 오후 5:29:48
		Power Factor	0.97

IsoLux Diagram (Ground)

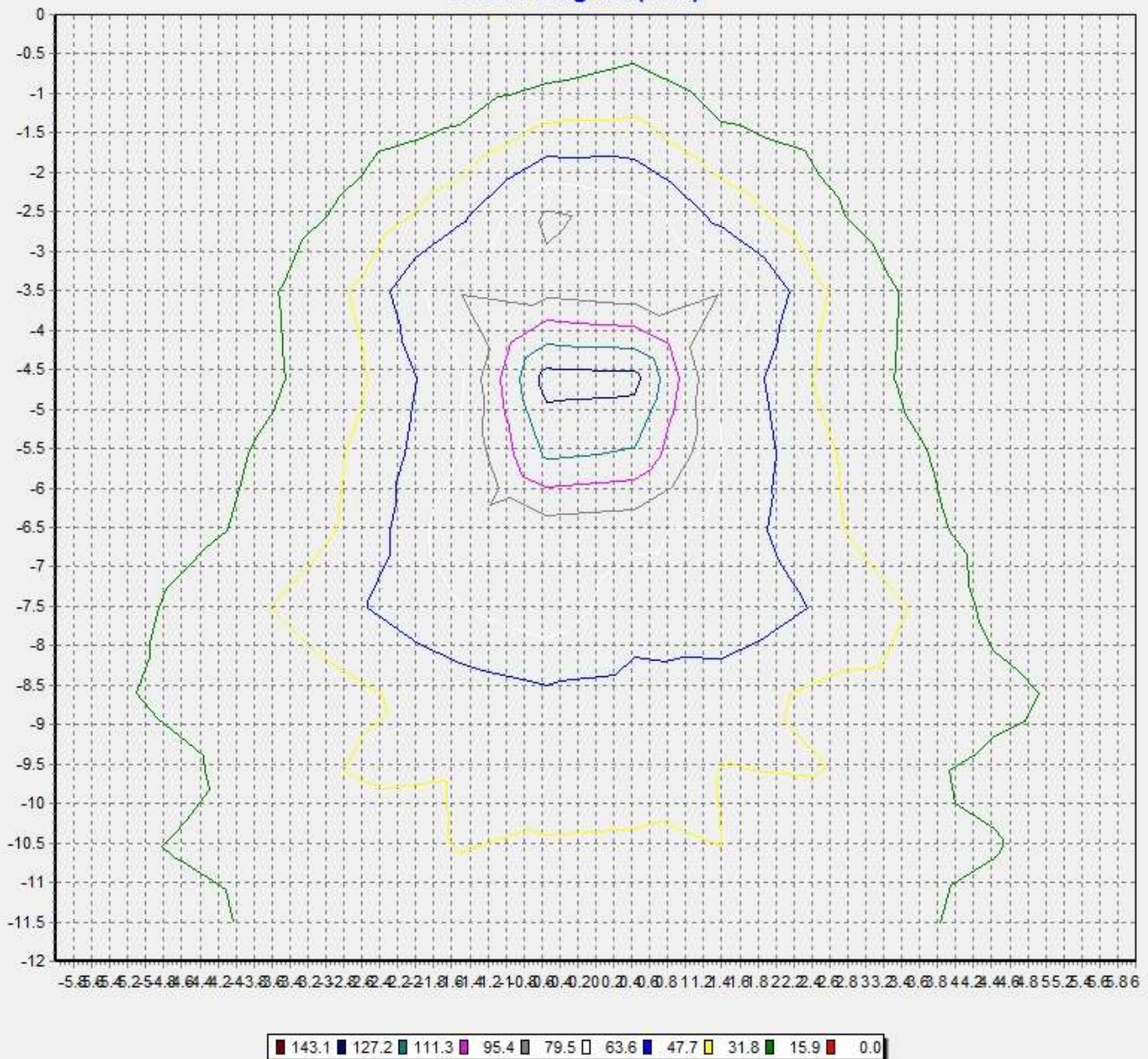


Pole Height (m): 2.7
 Area Width (m): 12

Luminaire

Lamp		Report	
No. of lamps	1	Filename	D:\배광\16data\포스라이팅\플레넷 사각투광등 120W PLF-12034C-DA.jdt
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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)	220.61
Lamp flux (lm)	13083	Current (A)	0.558
Total flux (lm)	13083	Power Factor	0.97

Report

Filename	D:\배광\16data\포스라이팅\플레넷 사각투광등 120W PLF-12034C-DA.jdt
Operator	
Date	2016-03-31 오후 5:29:48

Illuminance Levels (Ground)

6.00	0.81	1.11	1.03	1.42	2.58	2.95	3.07	3.00	2.59	1.41	1.06	1.11	0.81
5.00	1.11	1.15	2.49	3.58	3.37	6.16	6.67	6.19	3.40	3.59	2.43	1.17	1.11
4.00	1.08	2.48	2.82	6.77	7.45	14.98	16.84	15.08	7.36	6.63	2.81	2.42	1.09
3.00	1.46	3.48	6.70	9.21	17.91	29.94	36.73	30.40	17.79	8.85	6.54	3.47	1.43
2.00	2.56	3.45	7.16	17.09	87.09	146.05	365.10	143.38	84.36	16.55	7.11	3.41	2.55
1.00	2.96	5.80	13.54	28.31	143.25	674.36	1574.19	663.30	133.40	27.17	13.33	5.73	2.93
0.00	3.01	6.04	14.54	31.15	325.22	1505.75	2513.07	1578.29	335.76	33.25	14.84	6.15	3.05
-1.00	2.89	5.62	12.96	25.10	123.66	633.58	1521.40	627.92	122.36	25.83	12.82	5.63	2.86
-2.00	2.49	3.36	6.84	15.49	73.94	131.50	337.68	124.56	75.79	15.59	6.76	3.34	2.47
-3.00	1.43	3.38	6.13	8.36	16.18	26.89	34.67	27.19	16.36	8.57	6.20	3.35	1.39
-4.00	1.04	2.33	2.72	6.18	6.96	13.96	15.65	13.90	6.97	6.28	2.70	2.36	1.06
-5.00	1.07	1.14	2.33	3.41	3.26	5.87	6.32	5.84	3.23	3.35	2.37	1.11	1.08
-6.00	0.79	1.07	1.01	1.39	2.47	2.84	2.94	2.81	2.43	1.34	1.01	1.08	0.78
	-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

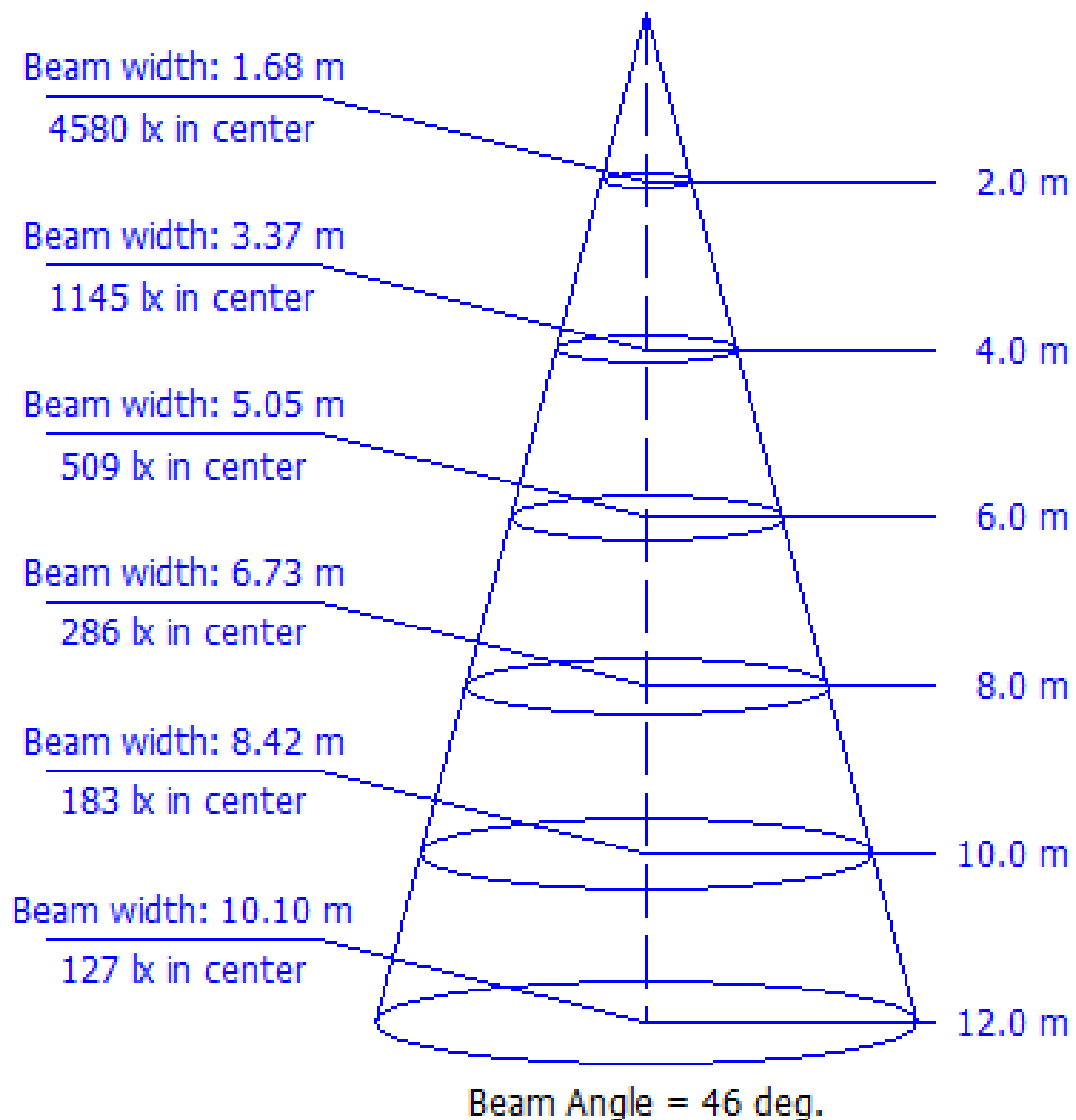
Illum. (Max.): 2513
 All illuminance level values are in lux.
 Illum. (Min.): 0.78
 Illum. Avg.: 89.3

Total Optical Solution Provider

Luminaire

Lamp		Report	
No. of lamps	1	Filename	D:\배광\16data\포스라이팅\플레넷 사각투광등 120W PLF-12034C-DA.jdt
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Total flux (lm)	13083	Date	2016-03-31 오후 5:29:48
		Power Factor	0.97

Illuminance Cone Diagram



Based on 50% of maximum illuminance.

Luminaire

Lamp

No. of lamps	1	Voltage (V)	220.61
Lamp flux (lm)	13083	Current (A)	0.558
Total flux (lm)	13083	Power Factor	0.97

Report

Filename	D:\배광\16data\포스라이팅\플레넷 사각투광등 120W PLF-12034C-DA.jdt
Operator	
Date	2016-03-31 오후 5:29:48

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	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.07	1.07	1.07	1.02	1.02	1.02	1.00
Room CR	1	1.11	1.08	1.06	1.08	1.06	1.04	1.04	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	0.86
Room CR	3	0.96	0.91	0.87	0.94	0.90	0.86	0.92	0.88	0.84	0.89	0.86	0.83	0.87	0.84	0.82	0.80
Room CR	4	0.89	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	0.77	0.73	0.81	0.76	0.73	0.79	0.75	0.72	0.78	0.74	0.71	0.70
Room CR	6	0.79	0.73	0.69	0.78	0.72	0.68	0.77	0.72	0.68	0.75	0.71	0.67	0.74	0.70	0.67	0.65
Room CR	7	0.74	0.68	0.64	0.74	0.68	0.64	0.72	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	0.62	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	0.63	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