

TEST REPORT

1. Applicant

Client Name : FEELUX Co. Ltd.

Address : 235-48 Gwangjeok-ro Gwangjeok-myeon Yangju-si Gyeonggi-do 482-844 Korea

Date of Receipt : 20150410

2. Purpose of Report : Test

3. Test Standard / Item : LED / NDV7 27K-24V -1

4. Test Period : 20150410 ~ 20150410

5. Test Environment

Ambient Temp. : (24.53 +- 3) °C

Relative Humidity : (17.87 +- 10) % RH

6. Test Result : Refer to the attachment

Test Item

Name of Product :

FEELUX

Model / Rating :

Model : FEELUX

Rating :

Confirmation	Test by kjc	Technical manager kjc
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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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TEST RESULT

Report Number	Sample Name	Sample Number	Test Standard
20150410-0001	FEELUX		LED

Test Item	Unit	Result	Memo
Beam Distribution Test	-	See attachment	
ATHD	%	0.0	
CIE 1931 Cxy		0.4566, 0.4064	
Correlated Color Temperature	K	2728	
Ra	-	83.36	
Power Factor	%	1.000	
Input Voltage	V	23.970	
Input Current	A	0.312	
Input Watt	W	7.48	
Lamp Flux	lm	528.1	
Efficient	lm/W	70.61	
Illuminance	lx	220	1 m
		55	2 m
		24	3 m

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

Sample photo

Click to load image

Luminaire

Lamp		Report	20150410-0001
No. of lamps	1	Filename C:\Program Files\JNCTECH\GoniLED\StartUp\Data\150410\NDV 7W 27K -1.jdt	
Lamp flux (lm)	528	Operator Current (A)	0.312
Total flux (lm)	528	Date Power Factor	1
			2015-04-10 오전 10:19:18

Luminous Intensity Data

GWC	0	10	20	30	40	50	60	70	80	90	100	110	120
0	220.32	219.24	219.60	220.97	220.23	220.45	221.60	219.93	219.07	220.47	220.60	220.07	220.64
5	219.70	219.72	219.28	220.23	219.17	219.82	220.13	218.97	218.38	219.18	219.85	219.21	218.40
10	217.43	217.13	217.27	216.25	216.05	215.44	216.23	215.87	214.93	215.44	214.30	214.95	213.94
15	211.09	211.29	212.05	210.55	210.84	210.60	211.27	209.70	209.21	208.18	208.46	207.83	207.90
20	202.12	201.06	202.35	201.50	201.88	201.91	202.36	201.45	201.31	199.34	198.66	197.75	197.62
25	188.80	189.08	189.62	189.27	190.29	189.69	189.99	189.92	189.88	188.86	188.20	187.55	187.26
30	172.29	173.69	174.04	173.69	176.18	175.74	177.39	177.11	177.31	175.47	174.86	173.75	172.47
35	155.06	154.38	155.28	155.67	159.44	159.47	160.94	161.01	161.41	160.18	160.39	159.06	156.28
40	135.82	135.42	137.80	138.31	140.70	142.16	143.60	144.21	145.29	143.85	143.67	142.28	140.43
45	116.73	116.33	118.24	119.60	122.82	123.48	126.10	127.36	127.94	127.70	127.13	124.62	122.36
50	99.79	98.97	100.89	101.65	104.33	104.78	108.15	109.98	111.20	110.14	109.44	107.42	104.88
55	82.06	80.92	82.35	84.33	86.48	87.78	89.49	91.98	93.24	92.58	92.61	89.68	87.50
60	64.62	64.23	65.71	67.55	70.57	71.77	73.93	74.15	76.16	76.26	75.65	72.20	70.34
65	49.71	49.60	51.49	52.58	55.94	56.39	58.32	58.86	59.99	59.85	58.97	57.63	56.14
70	38.17	38.04	39.04	39.97	42.50	43.02	44.56	44.06	45.56	44.97	44.38	43.15	41.51
75	28.87	28.52	29.22	29.29	30.17	31.48	31.28	31.28	31.14	29.91	30.06	29.82	29.36
80	21.00	21.02	20.66	20.89	22.06	20.37	20.63	19.14	18.02	17.14	17.08	17.99	18.36
85	14.70	14.63	14.81	14.46	13.60	13.24	12.19	10.35	7.87	6.22	7.69	8.40	10.71
90	9.90	9.76	10.06	8.83	8.72	7.82	5.95	3.68	1.73	0.79	1.62	3.33	4.93
95	5.77	6.13	6.13	5.31	4.69	3.11	2.32	0.40	0.39	0.63	0.74	0.79	1.24
100	3.05	2.78	2.84	2.70	1.51	1.47	0.51	1.05	1.21	0.50	0.28	0.65	0.52
105	1.25	1.98	1.40	1.32	0.56	0.86	0.79	0.42	0.97	1.06	0.57	0.40	0.89
110	0.33	0.66	1.07	1.09	0.77	0.72	1.02	0.67	1.13	0.58	0.87	0.63	0.95
115	0.33	1.37	1.08	1.30	0.73	1.29	1.05	1.31	1.00	0.69	1.10	1.57	0.83
120	1.17	1.01	0.50	1.56	0.81	1.32	0.89	1.01	1.40	1.12	1.25	0.86	1.33
125	0.87	1.53	2.07	1.39	0.95	1.29	0.86	1.76	1.50	1.68	1.49	1.39	0.90
130	1.50	1.33	1.86	1.60	1.28	1.30	1.38	1.46	1.40	1.48	1.09	1.08	1.84

Luminaire

Lamp		Report	20150410-0001										
No. of lamps	1	Filename	C:\Program Files\JNCTECH\GoniLED\StartUp\Data\150410\NDV 7W 27K -1.jdt										
Lamp flux (lm)	528	Operator	Current (A)	0.312									
Total flux (lm)	528	Date	Power Factor	1									
													2015-04-10 오전 10:19:18

Luminous Intensity Data (Continued)

GWC	130	140	150	160	170	180	190	200	210	220	230	240	250
0	220.19	220.00	220.82	221.42	220.58	220.32	219.24	219.60	220.97	220.23	220.45	221.60	219.93
5	218.41	218.28	217.96	218.38	218.90	217.13	218.13	218.62	217.30	218.01	219.27	218.73	218.75
10	213.49	213.14	214.11	213.80	213.98	212.11	213.42	212.99	213.27	213.77	213.79	214.60	213.90
15	206.04	207.35	207.26	206.13	206.84	202.84	204.42	204.81	205.69	205.27	206.24	207.34	207.69
20	197.12	196.62	196.48	196.05	195.73	191.97	193.17	193.67	194.22	195.58	195.66	197.96	197.80
25	185.07	184.59	183.42	183.58	182.48	177.53	178.30	179.17	180.50	182.82	184.41	184.53	187.59
30	170.37	170.06	168.32	166.41	166.01	161.02	162.62	163.07	164.70	167.13	169.31	171.65	173.19
35	154.38	153.91	150.79	149.94	148.35	141.84	144.11	144.46	147.54	150.50	153.02	156.39	158.02
40	137.14	135.05	132.66	131.23	129.39	123.83	124.83	125.94	129.53	131.58	134.77	137.96	140.91
45	119.69	117.31	113.73	113.12	111.36	104.71	106.40	108.11	110.98	112.39	116.35	120.67	122.36
50	101.28	98.46	95.52	93.89	92.62	85.66	88.20	89.69	92.32	95.35	98.91	101.71	104.84
55	83.66	81.31	78.24	76.26	74.03	67.58	69.33	71.38	75.31	77.56	82.16	83.85	87.60
60	68.16	65.95	62.32	60.66	58.41	53.01	54.15	56.40	58.83	61.63	65.64	67.13	70.53
65	52.54	50.81	47.31	46.22	45.06	41.03	42.09	42.41	45.39	47.52	50.41	52.37	55.09
70	40.09	38.15	36.42	35.28	33.70	31.38	32.00	32.19	33.80	35.18	36.74	38.39	40.12
75	28.22	27.47	26.62	26.10	25.46	22.73	23.72	23.44	24.47	24.52	25.90	26.36	26.69
80	18.21	18.93	18.29	18.71	18.95	15.91	16.72	16.14	16.78	16.18	16.75	15.99	15.19
85	11.28	11.65	12.57	12.43	13.19	11.26	11.35	11.58	10.90	10.35	9.38	7.40	6.42
90	5.86	7.20	7.02	8.33	8.51	6.90	7.30	7.05	6.22	5.70	4.39	2.99	1.66
95	2.10	3.73	4.09	4.80	4.15	4.20	3.55	3.47	2.97	2.59	1.55	1.03	0.67
100	0.75	0.66	1.74	2.47	2.12	1.77	1.08	1.53	1.48	0.28	1.01	0.69	0.31
105	0.80	0.94	0.72	1.04	0.61	1.05	0.43	0.33	0.27	0.69	0.98	0.26	0.33
110	1.41	1.09	0.32	0.43	1.06	0.98	0.67	0.87	-0.09	1.12	0.90	1.16	0.63
115	1.13	0.51	1.93	1.51	1.10	1.05	0.82	1.04	0.90	1.18	0.42	1.20	1.10
120	1.21	1.16	1.51	0.98	1.27	0.97	1.11	0.26	1.55	1.76	0.77	1.13	1.02
125	1.65	1.32	1.58	1.14	1.37	0.73	0.79	1.70	1.47	1.07	1.05	0.79	0.97
130	1.28	1.05	1.14	1.57	2.03	1.22	1.74	1.35	1.57	1.23	1.30	1.21	1.66

Luminaire

Lamp		Report		20150410-0001
No. of lamps	1	Filename	C:\Program Files\JNCTECH\GoniLED\StartUp\Data\150410\NDV 7W 27K -1.jdt	
Lamp flux (lm)	528	Operator	Current (A)	0.312
Total flux (lm)	528	Date	Power Factor	1
				2015-04-10 오전 10:19:18

Luminous Intensity Data (Continued)

GWC	260	270	280	290	300	310	320	330	340	350	360
0	219.07	220.47	220.60	220.07	220.64	220.19	220.00	220.82	221.42	220.58	220.32
5	219.18	219.26	218.44	219.98	218.24	219.42	219.74	220.25	219.23	220.46	219.70
10	214.18	214.72	214.50	215.81	214.43	215.19	215.56	216.18	215.92	215.68	217.43
15	206.51	209.50	209.17	209.07	209.01	209.86	208.94	209.40	208.57	208.62	211.09
20	199.04	200.01	200.36	200.98	201.16	200.13	200.38	199.50	198.32	199.01	202.12
25	187.36	188.95	189.08	189.61	189.25	189.56	186.42	186.61	186.41	185.26	188.80
30	174.02	174.79	175.41	175.92	174.19	172.95	172.25	170.78	169.24	168.43	172.29
35	159.12	159.97	160.53	160.73	158.84	157.36	154.91	152.72	151.01	150.01	155.06
40	141.37	143.86	143.74	143.92	140.96	139.60	135.40	133.85	131.24	130.71	135.82
45	125.22	125.98	126.09	125.81	123.40	120.09	116.67	115.71	112.98	112.81	116.73
50	106.38	108.80	108.36	107.67	103.56	102.00	98.94	98.12	95.37	94.02	99.79
55	89.19	90.94	90.22	88.79	85.82	84.69	82.54	80.45	76.78	76.50	82.06
60	71.58	74.66	74.47	72.13	69.88	69.40	65.70	64.59	61.38	60.63	64.62
65	55.77	57.71	56.52	56.22	55.32	54.02	50.97	49.97	47.29	46.39	49.71
70	40.55	41.66	41.42	42.11	40.85	40.46	38.45	37.60	35.35	35.22	38.17
75	26.62	26.70	27.07	27.82	28.21	29.18	27.92	27.35	26.28	26.31	28.87
80	14.14	14.59	14.73	17.11	17.24	17.98	19.42	19.15	19.15	19.77	21.00
85	5.14	3.90	4.74	7.41	9.87	11.32	12.63	12.58	13.30	13.59	14.70
90	0.75	0.26	0.83	2.37	4.56	5.81	7.04	8.51	8.30	8.46	9.90
95	1.45	0.31	0.09	0.30	1.37	2.61	3.68	4.13	4.70	4.84	5.77
100	0.46	0.92	0.89	0.54	0.70	0.81	1.50	1.95	2.32	3.08	3.05
105	0.71	0.37	0.98	0.59	0.60	0.83	0.98	1.15	0.63	0.85	1.25
110	1.17	1.35	0.95	0.99	0.95	0.62	0.38	1.52	0.65	1.23	0.33
115	1.11	0.77	0.78	1.21	0.85	0.46	0.81	1.40	0.85	1.75	0.33
120	1.13	1.64	0.90	0.51	0.89	1.03	1.13	0.94	0.45	0.58	1.17
125	0.76	0.97	0.88	1.81	1.60	1.24	1.32	1.27	1.16	1.25	0.87
130	1.06	1.30	1.35	1.06	1.63	1.13	1.34	1.62	1.27	0.78	1.50

Luminaire

Lamp		Report		20150410-0001
No. of lamps	1	Filename	C:\Program Files\JNCTECH\GoniLED\StartUp\Data\150410\NDV 7W 27K -1.jdt	
Lamp flux (lm)	528	Operator	Current (A)	0.312
Total flux (lm)	528	Date	Power Factor	1
				2015-04-10 오전 10:19:18

Luminous Flux Table

Total Lamp Lumens: 528

Luminaire Efficiency (lm/W): 528.07

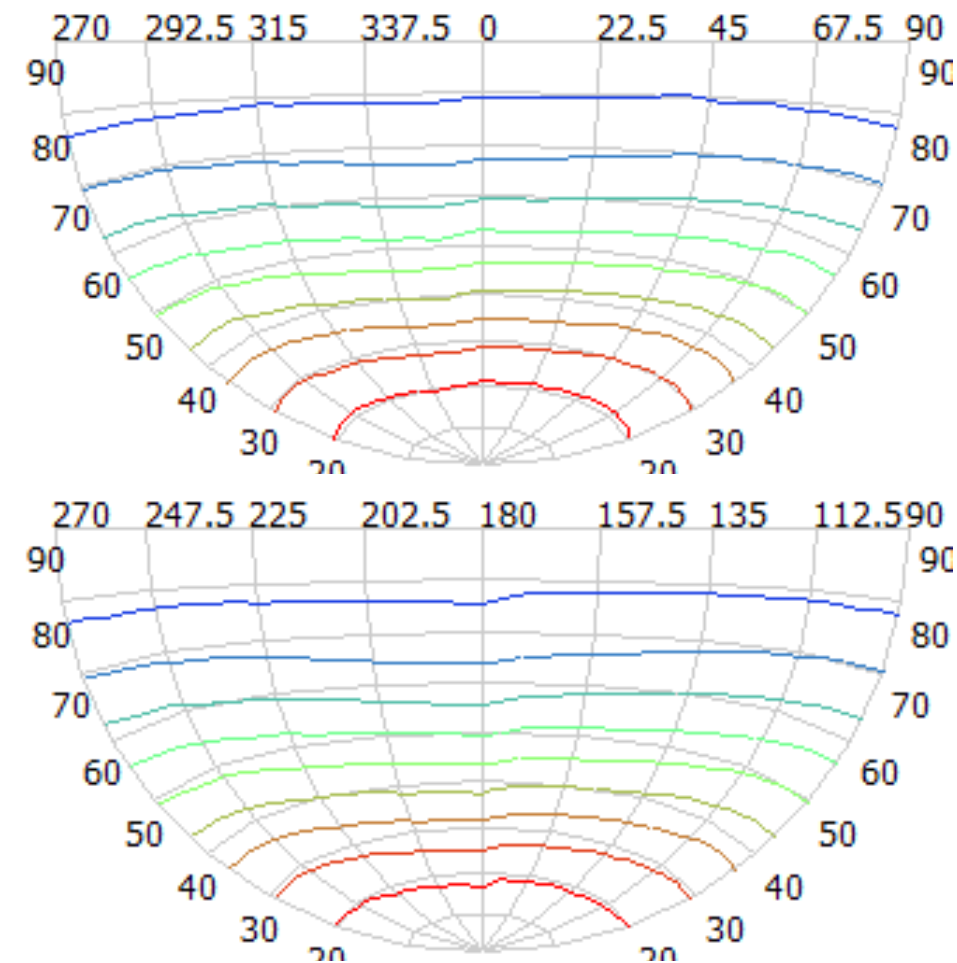
CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	1.32	1.32	0.25	0.25
5	10.46	11.78	2.23	2.23
10	20.45	32.23	6.10	6.10
15	29.54	61.77	11.70	11.70
20	37.24	99.00	18.75	18.75
25	43.18	142.19	26.92	26.93
30	47.02	189.20	35.83	35.83
35	48.71	237.91	45.05	45.05
40	48.28	286.19	54.19	54.19
45	46.11	332.29	62.92	62.93
50	42.38	374.67	70.95	70.95
55	37.36	412.03	78.02	78.03
60	31.78	443.81	84.04	84.04
65	25.86	469.67	88.94	88.94
70	20.12	489.79	92.75	92.75
75	14.64	504.43	95.52	95.52
80	9.75	514.18	97.36	97.37
85	5.81	519.99	98.47	98.47
90	3.09	523.09	99.05	99.06
95	1.52	524.60	99.34	99.34
100	0.72	525.33	99.47	99.48
105	0.42	525.75	99.55	99.56
110	0.44	526.19	99.64	99.64
115	0.52	526.71	99.74	99.74
120	0.50	527.21	99.83	99.84
125	0.57	527.78	99.94	99.94
130	0.29	528.07	99.99	100.00

Luminaire

Lamp		Report	20150410-0001
No. of lamps	1	Filename C:\Program Files\JNCTECH\GoniLED\StartUp\Data\150410\NDV 7W 27K -1.jdt	
Lamp flux (lm)	528	Operator Current (A)	0.312
Total flux (lm)	528	Date Power Factor	1
			2015-04-10 오전 10:19:18

IsoCandela (Type C)



0 ~ 22	111 ~ 133
22 ~ 44	133 ~ 155
44 ~ 66	155 ~ 177
66 ~ 89	177 ~ 199
89 ~ 111	199 ~ 222

Luminaire

Lamp		Report	20150410-0001										
No. of lamps	1	Filename	C:\Program Files\JNCTECH\GoniLED\StartUp\Data\150410\NDV 7W 27K -1.jdt										
Lamp flux (lm)	528	Operator	Current (A)	0.312									
Total flux (lm)	528	Date	Power Factor	1									
2015-04-10 오전 10:19:18													

Illuminance Levels (Ground)

6.00	0.18	0.24	0.26	0.34	0.56	0.66	0.70	0.65	0.57	0.35	0.27	0.26	0.18
5.00	0.24	0.27	0.50	0.73	0.79	1.20	1.28	1.21	0.79	0.75	0.52	0.27	0.26
4.00	0.23	0.49	0.61	1.17	1.42	2.34	2.56	2.35	1.44	1.20	0.61	0.51	0.24
3.00	0.30	0.63	1.15	1.64	2.82	4.11	4.81	4.14	2.82	1.64	1.18	0.67	0.32
2.00	0.47	0.63	1.29	2.53	6.05	8.92	12.16	9.02	6.08	2.65	1.34	0.68	0.50
1.00	0.53	0.95	1.95	3.65	8.50	17.01	23.48	17.35	8.74	3.84	2.10	1.05	0.56
0.00	0.49	0.92	1.97	3.83	11.04	22.87	30.22	23.81	11.89	4.37	2.31	1.12	0.59
-1.00	0.47	0.87	1.81	3.43	8.12	16.53	23.63	17.26	8.54	3.73	1.99	0.98	0.53
-2.00	0.42	0.57	1.17	2.34	5.67	8.60	12.12	8.98	6.11	2.59	1.31	0.65	0.49
-3.00	0.27	0.57	1.05	1.45	2.65	3.91	4.75	4.11	2.79	1.64	1.16	0.65	0.31
-4.00	0.20	0.44	0.52	1.09	1.32	2.25	2.53	2.31	1.41	1.18	0.62	0.50	0.23
-5.00	0.22	0.23	0.45	0.68	0.74	1.15	1.26	1.18	0.77	0.73	0.51	0.27	0.25
-6.00	0.16	0.22	0.23	0.30	0.52	0.62	0.68	0.65	0.55	0.33	0.26	0.25	0.18
-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.): 30.2

Illum. (Min.): 0.16

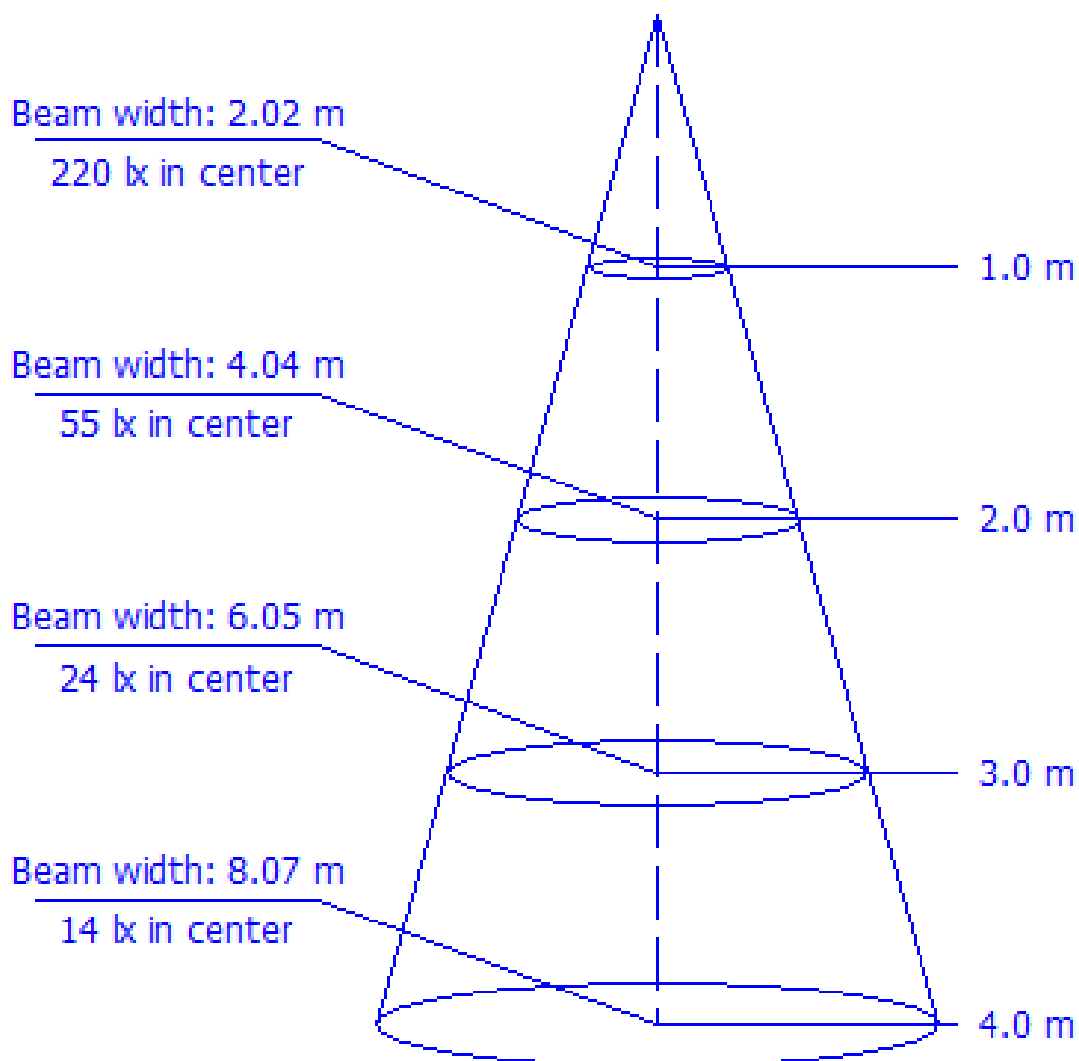
Illum. Avg.: 2.99

All illuminance level values are in lux.

Luminaire

Lamp		Report	20150410-0001		
No. of lamps	1	Filename	C:\Program Files\JNCTECH\GoniLED\StartUp\Data\150410\NDV 7W 27K -1.jdt		
Lamp flux (lm)	528	Operator	Current (A)	0.312	
Total flux (lm)	528	Date	Power Factor	1	2015-04-10 오전 10:19:18

Illuminance Cone Diagram



Beam Angle = 91 deg.

Based on 50% of maximum illuminance.

Luminaire

Lamp

Report

20150410-0001

No. of lamps	1	Voltage (V)	23.97
Lamp flux (lm)	528	Current (A)	0.312
Total flux (lm)	528	Power Factor	1

Filename	C:\Program Files\JNCTECH\GoniLED\StartUp\Data\150410\NDV 7W 27K -1.jdt
Operator	
Date	2015-04-10 오전 10:19:18

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	1.17	1.17	1.17	1.14	1.14	1.14	1.09	1.09	1.09	1.04	1.04	1.04	0.99	0.99	0.99	0.97
Room CR 1	1.03	0.99	0.95	1.01	0.97	0.94	0.96	0.93	0.90	0.92	0.90	0.87	0.88	0.86	0.85	0.82
Room CR 2	0.91	0.84	0.79	0.89	0.83	0.78	0.85	0.80	0.76	0.82	0.77	0.74	0.78	0.75	0.72	0.70
Room CR 3	0.80	0.73	0.66	0.79	0.71	0.66	0.75	0.69	0.64	0.73	0.68	0.63	0.70	0.66	0.62	0.60
Room CR 4	0.72	0.63	0.57	0.70	0.63	0.57	0.68	0.61	0.56	0.65	0.59	0.55	0.63	0.58	0.54	0.52
Room CR 5	0.64	0.56	0.50	0.63	0.55	0.49	0.61	0.54	0.49	0.59	0.53	0.48	0.57	0.52	0.47	0.45
Room CR 6	0.58	0.50	0.44	0.57	0.49	0.44	0.55	0.48	0.43	0.54	0.47	0.43	0.52	0.46	0.42	0.40
Room CR 7	0.53	0.45	0.39	0.52	0.44	0.39	0.51	0.44	0.38	0.49	0.43	0.38	0.48	0.42	0.38	0.36
Room CR 8	0.49	0.41	0.35	0.48	0.40	0.35	0.47	0.40	0.35	0.45	0.39	0.34	0.44	0.38	0.34	0.32
Room CR 9	0.45	0.37	0.32	0.44	0.37	0.32	0.43	0.36	0.31	0.42	0.36	0.31	0.41	0.35	0.31	0.29
Room CR 10	0.42	0.34	0.29	0.41	0.34	0.29	0.40	0.33	0.29	0.39	0.33	0.28	0.38	0.32	0.28	0.27