

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P999804

Luminaire Tested: SA2XXRDIP-B485D725UB30-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P999804
REPORT IS A COMBINATION OF REPORTS P988359 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B485D725UB30-4F0-XX-W2A-F4
Description: Define 2 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

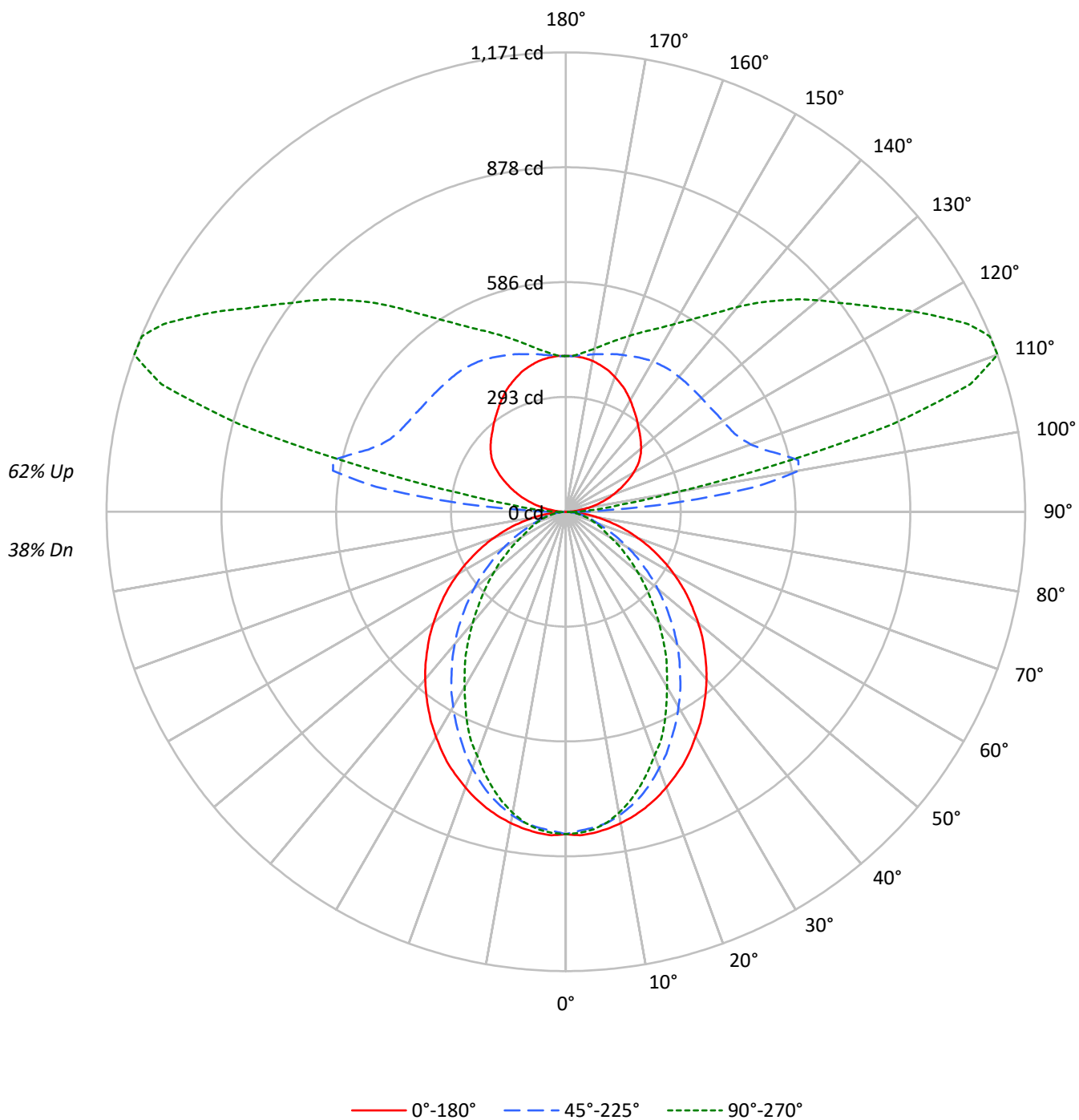
Lumens per Lamp: N/A
Luminaire Lumens: 4460.2 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 45.1
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45
1	95	91	88	84	87	83	80	77	68	65	64	53	52	51	40	39	39
2	87	80	74	69	79	73	68	64	60	56	53	47	45	43	36	34	33
3	80	71	64	58	72	65	59	54	53	49	45	42	39	37	32	30	29
4	73	63	55	49	66	57	51	46	47	42	39	38	34	32	29	27	25
5	67	56	48	43	61	51	45	39	42	37	34	34	30	28	26	24	22
6	62	50	43	37	56	46	39	34	38	33	29	31	27	24	24	21	20
7	57	45	38	32	52	42	35	30	35	30	26	28	24	22	22	19	17
8	53	41	34	29	48	38	31	27	32	27	23	26	22	19	20	18	16
9	49	38	30	26	45	35	28	24	29	24	21	24	20	17	19	16	14
10	46	35	28	23	42	32	26	22	27	22	19	22	18	16	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13007	13007	13007
5°	13028	12374	12283
10°	12900	11736	11349
15°	12723	10983	10285
20°	12488	10128	9173
25°	12247	9249	8154
30°	11924	8392	7042
35°	11610	7529	6086
40°	11287	6682	5104
45°	10913	5806	4245
50°	10527	4962	3456
55°	10126	4119	2743
60°	9659	3294	2076
65°	9122	2511	1688
70°	8471	1823	1343
75°	7653	1390	1024
80°	6475	941	687
85°	4520	430	332

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10913 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.0	1.7
10°-20°	211.4	4.7
20°-30°	296.8	6.7
30°-40°	323.6	7.3
40°-50°	297.4	6.7
50°-60°	233.5	5.2
60°-70°	152.0	3.4
70°-80°	78.3	1.8
80°-90°	22.5	0.5
90°-100°	160.9	3.6
100°-110°	544.0	12.2
110°-120°	571.8	12.8
120°-130°	470.2	10.5
130°-140°	377.9	8.5
140°-150°	285.5	6.4
150°-160°	200.7	4.5
160°-170°	118.2	2.6
170°-180°	38.4	0.9
0°-30°	585.3	13.1
0°-40°	908.8	20.4
0°-60°	1439.7	32.3
0°-90°	1692.5	37.9
90°-120°	1276.8	28.6
90°-150°	2410.4	54.0
90°-180°	2768.0	62.1
0°-180°	4460.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	822	822	822	822	822	
5°	822	818	808	815	813	78
15°	782	773	748	734	726	220
25°	709	686	637	606	595	326
35°	611	573	508	461	445	383
45°	500	450	372	319	301	386
55°	380	322	242	197	183	340
65°	257	196	129	104	102	254
75°	137	85	60	54	54	145
85°	32	16	14	14	14	37
90°	1	10	26	25	25	3
95°	27	66	299	113	87	28
105°	93	140	566	1011	860	99
115°	164	207	473	977	1132	163
125°	229	271	455	791	918	204
135°	269	321	450	665	761	208
145°	307	353	447	555	608	193
155°	349	377	434	491	511	161
165°	380	392	416	441	448	107
175°	396	397	400	405	404	38
180°	397	397	397	397	397	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	821.7	821.7	821.7	821.7	821.7
2.5°	825.5	821.7	813.6	821.0	819.5
5°	821.7	818.0	808.3	815.0	812.8
7.5°	815.0	810.6	800.2	803.1	799.4
10°	806.1	800.9	786.0	783.8	779.3
12.5°	795.0	788.3	768.2	763.7	755.5
15°	781.6	773.4	748.1	734.0	726.5
17.5°	766.0	754.1	722.8	706.5	694.6
20°	748.1	733.2	696.1	677.5	661.1
22.5°	728.8	711.7	668.5	643.3	632.1
25°	709.4	685.6	636.6	606.1	594.9
27.5°	686.4	661.1	606.8	571.9	554.8
30°	661.8	633.6	574.1	536.2	516.1
32.5°	638.1	603.8	542.9	498.2	479.7
35°	611.3	573.4	507.9	461.1	444.7
37.5°	585.3	544.4	475.2	423.9	405.3
40°	557.7	513.1	441.0	388.2	368.9
42.5°	529.5	481.9	406.8	351.7	333.2
45°	499.7	449.9	371.8	319.0	301.2
47.5°	471.5	418.7	338.4	285.6	269.2
50°	440.2	387.4	305.6	254.3	238.7
52.5°	409.8	354.0	274.4	225.3	211.2
55°	380.0	322.0	241.7	197.1	182.9
57.5°	349.5	290.0	212.7	171.0	159.1
60°	318.3	258.8	182.2	144.3	132.4
62.5°	287.8	228.3	156.2	120.5	114.5
65°	256.6	196.3	129.4	104.1	101.9
67.5°	226.8	166.6	104.1	91.5	89.2
70°	195.6	137.6	86.3	78.8	75.9
72.5°	165.8	110.8	72.1	66.2	64.7
75°	136.8	84.8	59.5	54.3	53.5
77.5°	107.8	60.2	46.8	43.9	42.4
80°	81.1	43.1	35.7	32.7	32.7
82.5°	56.5	29.0	24.5	23.1	23.1
85°	32.0	16.4	14.1	14.1	14.1
87.5°	11.9	5.9	5.9	5.2	5.2
90°	0.8	10.4	26.0	24.8	25.2
92.5°	11.5	36.3	117.6	54.2	46.6
95°	26.7	65.6	299.2	113.0	87.0
97.5°	39.7	86.6	487.8	226.7	145.8
100°	58.8	106.1	603.1	451.6	273.3
102.5°	76.3	123.7	606.9	763.4	532.8
105°	93.1	140.5	565.7	1011.1	860.3
107.5°	111.5	157.2	527.5	1100.8	1081.0
110°	129.8	174.4	501.5	1086.3	1171.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	146.6	190.9	484.8	1037.0	1169.5
115°	164.1	207.3	473.3	976.8	1132.1
117.5°	182.4	223.7	467.2	919.1	1075.6
120°	199.2	239.7	461.8	867.6	1021.4
122.5°	215.3	256.1	458.8	827.5	964.9
125°	229.0	271.0	455.0	791.2	918.4
127.5°	240.5	285.2	452.7	760.4	874.8
130°	250.4	297.7	451.2	729.0	839.0
132.5°	259.6	309.9	450.4	696.6	801.6
135°	268.7	320.6	449.6	664.9	761.1
137.5°	277.1	329.8	449.6	632.8	722.2
140°	287.0	338.2	448.9	604.6	681.7
142.5°	297.0	345.0	448.9	577.5	641.2
145°	306.9	352.7	447.3	555.3	607.7
147.5°	317.6	358.8	445.1	535.9	577.9
150°	328.3	364.9	442.8	519.1	551.9
152.5°	338.9	371.0	438.9	505.0	529.8
155°	348.9	376.8	434.4	491.2	510.7
157.5°	357.3	381.3	429.8	478.2	493.9
160°	365.7	385.9	425.2	465.3	477.9
162.5°	374.1	389.4	421.4	453.1	462.6
165°	380.2	391.6	416.0	441.2	448.1
167.5°	385.5	393.9	411.5	430.6	434.4
170°	390.9	395.0	407.6	420.6	422.2
172.5°	393.9	396.2	403.1	411.8	412.2
175°	396.2	396.6	400.0	405.0	403.8
177.5°	397.7	397.0	397.0	400.0	397.7
180°	397.0	397.0	397.0	397.0	397.0

(END OF REPORT)