

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: P999978

Luminaire Tested: SA2XXRDIP-B675D530UB50-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P999978
REPORT IS A COMBINATION OF REPORTS P988535 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B675D530UB50-4F0-XX-W2A-F
Description: Define 2 Regressed Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

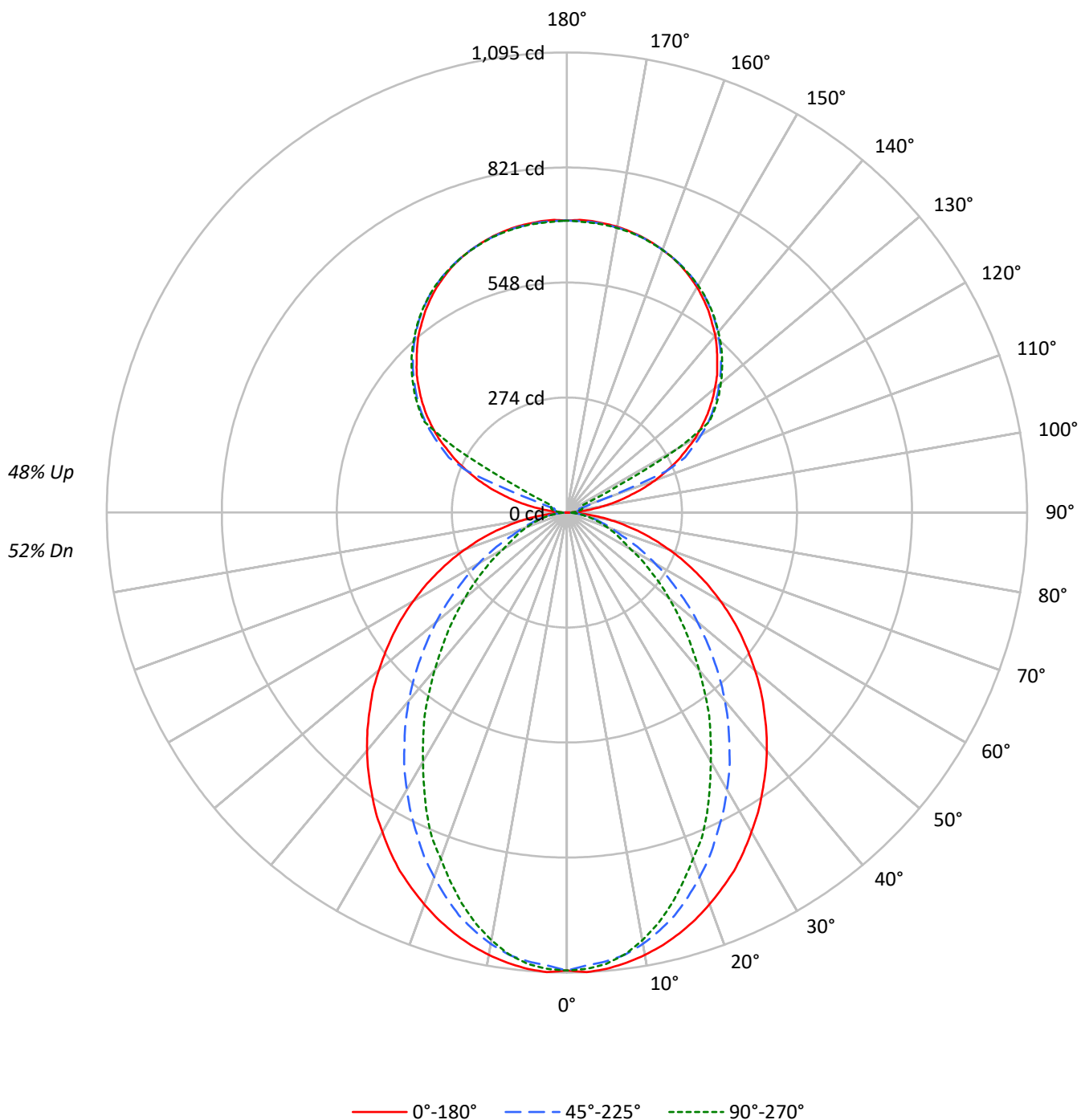
Lumens per Lamp: N/A
Luminaire Lumens: 4280.0 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 51.3
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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	58	58	58
1	99	95	91	88	91	88	85	82	75	73	71	63	62	60	52	51	50
2	90	83	77	72	83	77	72	68	66	63	59	56	53	51	47	45	43
3	83	74	67	61	76	69	62	57	59	54	50	50	47	44	42	39	37
4	76	66	58	52	70	61	54	49	53	48	43	45	41	38	38	35	33
5	70	59	51	45	65	55	48	43	47	42	38	41	36	33	34	31	29
6	65	53	45	39	60	49	42	37	43	37	33	37	33	29	31	28	26
7	60	48	40	35	55	45	38	33	39	34	30	34	29	26	29	25	23
8	56	44	36	31	52	41	34	29	36	30	26	31	27	24	26	23	21
9	52	40	33	28	48	38	31	26	33	28	24	29	24	21	25	21	19
10	49	37	30	25	45	35	28	24	30	25	22	27	22	19	23	20	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17256	17256	17256
5°	17284	16417	16295
10°	17114	15571	15057
15°	16879	14572	13645
20°	16568	13435	12168
25°	16249	12269	10817
30°	15820	11133	9342
35°	15400	9988	8075
40°	14975	8863	6769
45°	14480	7703	5632
50°	13965	6584	4585
55°	13432	5464	3640
60°	12811	4370	2754
65°	12101	3332	2239
70°	11238	2416	1780
75°	10153	1843	1359
80°	8583	1249	912
85°	5989	570	440

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14480 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.2	2.4
10°-20°	280.5	6.6
20°-30°	393.8	9.2
30°-40°	429.2	10.0
40°-50°	394.5	9.2
50°-60°	309.8	7.2
60°-70°	201.7	4.7
70°-80°	103.8	2.4
80°-90°	27.7	0.6
90°-100°	22.9	0.5
100°-110°	85.4	2.0
110°-120°	226.5	5.3
120°-130°	375.7	8.8
130°-140°	399.0	9.3
140°-150°	370.9	8.7
150°-160°	298.2	7.0
160°-170°	192.1	4.5
170°-180°	66.1	1.5
0°-30°	776.4	18.1
0°-40°	1205.7	28.2
0°-60°	1910.0	44.6
0°-90°	2243.2	52.4
90°-120°	334.8	7.8
90°-150°	1480.4	34.6
90°-180°	2037.0	47.6
0°-180°	4280.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1090	1090	1090	1090	1090	
5°	1090	1085	1072	1081	1078	103
15°	1037	1026	992	974	964	292
25°	941	910	844	804	789	433
35°	811	761	674	612	590	508
45°	663	597	493	423	400	512
55°	504	427	321	261	243	450
65°	340	260	172	138	135	337
75°	182	112	79	72	71	192
85°	42	22	19	19	19	49
90°	0	6	10	13	14	4
95°	33	16	20	22	22	39
105°	153	168	31	36	38	163
115°	289	298	310	77	41	285
125°	409	415	425	428	430	365
135°	506	514	518	523	522	391
145°	587	586	595	598	596	367
155°	646	642	648	650	646	298
165°	681	678	679	683	679	192
175°	696	693	694	697	692	66
180°	695	695	695	695	695	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1090.1	1090.1	1090.1	1090.1	1090.1
2.5°	1095.1	1090.1	1079.3	1089.1	1087.2
5°	1090.1	1085.2	1072.4	1081.3	1078.3
7.5°	1081.3	1075.3	1061.5	1065.5	1060.5
10°	1069.4	1062.5	1042.8	1039.8	1033.9
12.5°	1054.6	1045.7	1019.1	1013.2	1002.3
15°	1036.9	1026.0	992.5	973.7	963.9
17.5°	1016.1	1000.4	958.9	937.2	921.4
20°	992.5	972.7	923.4	898.7	877.0
22.5°	966.8	944.1	886.9	853.4	838.6
25°	941.2	909.6	844.5	804.0	789.2
27.5°	910.6	877.0	805.0	758.7	736.0
30°	878.0	840.5	761.6	711.3	684.7
32.5°	846.5	801.1	720.2	661.0	636.3
35°	810.9	760.6	673.8	611.7	590.0
37.5°	776.4	722.2	630.4	562.3	537.7
40°	739.9	680.7	585.0	515.0	489.3
42.5°	702.4	639.3	539.6	466.6	442.0
45°	663.0	596.9	493.3	423.2	399.6
47.5°	625.5	555.4	448.9	378.8	357.1
50°	584.0	514.0	405.5	337.4	316.7
52.5°	543.6	469.6	364.0	298.9	280.2
55°	504.1	427.2	320.6	261.4	242.7
57.5°	463.7	384.8	282.2	226.9	211.1
60°	422.2	343.3	241.7	191.4	175.6
62.5°	381.8	302.9	207.2	159.8	151.9
65°	340.4	260.4	171.7	138.1	135.2
67.5°	300.9	221.0	138.1	121.3	118.4
70°	259.5	182.5	114.4	104.6	100.6
72.5°	220.0	147.0	95.7	87.8	85.8
75°	181.5	112.5	78.9	72.0	71.0
77.5°	143.0	79.9	62.2	58.2	56.2
80°	107.5	57.2	47.4	43.4	43.4
82.5°	75.0	38.5	32.6	30.6	30.6
85°	42.4	21.7	18.7	18.7	18.7
87.5°	15.8	7.9	7.9	6.9	6.9
90°	0.5	6.0	10.1	12.6	13.6
92.5°	12.6	10.6	12.1	13.1	13.6
95°	32.7	16.1	19.6	22.1	21.6
97.5°	58.8	17.6	25.6	27.1	27.6
100°	89.0	20.1	28.7	32.7	33.7
102.5°	122.2	121.2	29.7	35.2	36.7
105°	152.8	167.9	30.7	36.2	38.2
107.5°	188.5	201.1	31.7	37.2	39.2
110°	222.7	233.3	88.0	37.7	39.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	254.9	263.9	255.4	38.7	40.2
115°	289.1	297.6	310.2	77.4	41.2
117.5°	318.7	328.8	337.3	265.4	133.7
120°	351.9	359.4	368.5	374.5	306.7
122.5°	380.1	388.1	398.2	401.2	401.7
125°	408.7	415.2	424.8	428.3	429.8
127.5°	434.9	441.9	449.4	454.5	455.0
130°	459.5	467.5	473.1	478.6	478.1
132.5°	484.6	491.2	496.7	501.2	500.7
135°	505.7	513.8	518.3	523.3	522.3
137.5°	527.9	533.9	538.9	543.9	542.4
140°	549.5	553.5	559.0	563.5	561.0
142.5°	567.6	571.1	577.6	581.6	579.1
145°	586.7	586.2	594.7	598.2	595.7
147.5°	603.3	601.8	610.3	612.8	610.8
150°	619.3	615.8	623.9	626.9	624.4
152.5°	632.9	628.9	636.4	639.5	635.9
155°	646.0	641.5	647.5	650.5	646.5
157.5°	656.5	652.5	657.1	660.6	656.5
160°	665.6	662.6	665.6	668.6	665.1
162.5°	673.6	670.6	673.1	676.7	672.1
165°	680.7	677.7	679.2	682.7	679.2
167.5°	686.2	683.2	684.7	688.2	683.7
170°	690.7	687.7	688.7	692.2	687.7
172.5°	693.7	690.7	691.7	695.3	690.7
175°	696.3	692.7	693.7	697.3	692.2
177.5°	697.3	693.7	694.3	697.8	693.2
180°	694.8	694.8	694.8	694.8	694.8

(END OF REPORT)