

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: P999922

Luminaire Tested: SA2XXRDIP-B675D330UB30-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P999922
REPORT IS A COMBINATION OF REPORTS P988479 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B675D330UB30-4F0-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

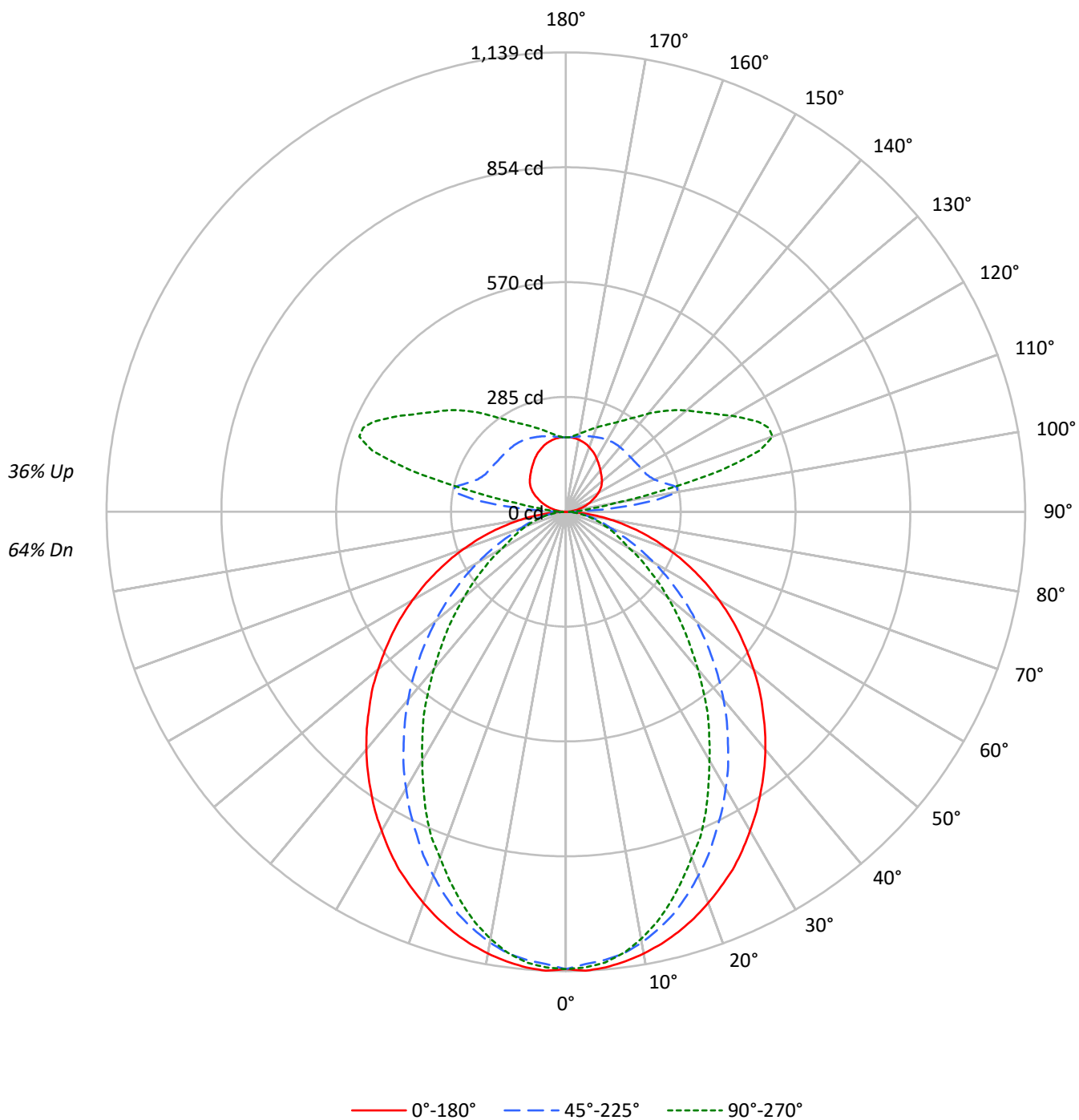
Lumens per Lamp: N/A
Luminaire Lumens: 3621.5 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 45.2
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	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69
1	102	97	94	90	95	92	88	86	81	79	76	71	70	68	62	61	60
2	93	86	80	75	87	81	76	71	72	68	64	63	60	58	56	53	51
3	85	76	69	63	80	72	65	60	64	59	55	57	53	50	50	47	44
4	78	68	60	54	74	64	57	52	57	52	47	51	47	43	45	42	39
5	72	61	53	47	68	58	50	45	52	46	41	46	41	38	41	37	34
6	67	55	47	41	63	52	45	40	47	41	36	42	37	33	37	33	31
7	62	50	42	36	58	47	40	35	43	37	32	38	34	30	34	30	27
8	58	46	38	33	54	43	36	31	39	33	29	35	30	27	32	28	25
9	54	42	34	29	51	40	33	28	36	30	26	33	28	24	29	25	23
10	51	39	31	27	48	37	30	26	33	28	24	30	26	22	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17949	17949	17949
5°	17978	17076	16950
10°	17800	16195	15661
15°	17557	15156	14192
20°	17232	13974	12656
25°	16900	12761	11251
30°	16456	11581	9716
35°	16019	10390	8398
40°	15576	9219	7042
45°	15061	8012	5858
50°	14527	6847	4769
55°	13973	5684	3785
60°	13327	4545	2865
65°	12584	3464	2329
70°	11689	2513	1852
75°	10562	1918	1414
80°	8934	1299	950
85°	6229	595	459

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15061 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.3	2.9
10°-20°	291.7	8.1
20°-30°	409.6	11.3
30°-40°	446.5	12.3
40°-50°	410.3	11.3
50°-60°	322.3	8.9
60°-70°	209.8	5.8
70°-80°	108.0	3.0
80°-90°	28.8	0.8
90°-100°	74.9	2.1
100°-110°	253.2	7.0
110°-120°	266.2	7.4
120°-130°	218.9	6.0
130°-140°	175.9	4.9
140°-150°	132.9	3.7
150°-160°	93.4	2.6
160°-170°	55.0	1.5
170°-180°	17.9	0.5
0°-30°	807.6	22.3
0°-40°	1254.0	34.6
0°-60°	1986.6	54.9
0°-90°	2333.2	64.4
90°-120°	594.3	16.4
90°-150°	1122.0	31.0
90°-180°	1288.0	35.6
0°-180°	3621.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1134	1134	1134	1134	1134	
5°	1134	1129	1115	1125	1122	108
15°	1078	1067	1032	1013	1002	304
25°	979	946	878	836	821	450
35°	844	791	701	636	614	528
45°	690	621	513	440	416	533
55°	524	444	334	272	252	469
65°	354	271	178	144	141	351
75°	189	117	82	75	74	200
85°	44	23	20	20	20	51
90°	0	5	12	12	12	3
95°	12	31	139	53	40	13
105°	43	65	263	471	400	46
115°	76	96	220	455	527	76
125°	107	126	212	368	428	95
135°	125	149	209	310	354	97
145°	143	164	208	259	283	90
155°	162	175	202	229	238	75
165°	177	182	194	205	209	50
175°	184	185	186	188	188	18
180°	185	185	185	185	185	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1133.9	1133.9	1133.9	1133.9	1133.9
2.5°	1139.0	1133.9	1122.6	1132.9	1130.8
5°	1133.9	1128.8	1115.4	1124.7	1121.6
7.5°	1124.7	1118.5	1104.1	1108.2	1103.1
10°	1112.3	1105.2	1084.6	1081.6	1075.4
12.5°	1097.0	1087.7	1060.0	1053.9	1042.6
15°	1078.5	1067.2	1032.3	1012.8	1002.5
17.5°	1056.9	1040.5	997.4	974.8	958.4
20°	1032.3	1011.8	960.5	934.8	912.2
22.5°	1005.6	982.0	922.5	887.6	872.2
25°	978.9	946.1	878.4	836.3	820.9
27.5°	947.1	912.2	837.3	789.1	765.5
30°	913.3	874.3	792.2	739.9	712.1
32.5°	880.4	833.2	749.1	687.5	661.9
35°	843.5	791.2	700.9	636.2	613.6
37.5°	807.6	751.1	655.7	584.9	559.3
40°	769.6	708.0	608.5	535.6	509.0
42.5°	730.6	664.9	561.3	485.4	459.7
45°	689.6	620.8	513.1	440.2	415.6
47.5°	650.6	577.7	466.9	394.0	371.5
50°	607.5	534.6	421.7	350.9	329.4
52.5°	565.4	488.4	378.6	310.9	291.4
55°	524.4	444.3	333.5	271.9	252.4
57.5°	482.3	400.2	293.5	236.0	219.6
60°	439.2	357.1	251.4	199.1	182.7
62.5°	397.1	315.0	215.5	166.2	158.0
65°	354.0	270.9	178.5	143.7	140.6
67.5°	313.0	229.9	143.7	126.2	123.1
70°	269.9	189.8	119.0	108.8	104.7
72.5°	228.8	152.9	99.5	91.3	89.3
75°	188.8	117.0	82.1	74.9	73.9
77.5°	148.8	83.1	64.6	60.5	58.5
80°	111.9	59.5	49.3	45.2	45.2
82.5°	78.0	40.0	33.9	31.8	31.8
85°	44.1	22.6	19.5	19.5	19.5
87.5°	16.4	8.2	8.2	7.2	7.2
90°	0.4	4.8	12.1	11.6	11.7
92.5°	5.3	16.8	54.7	25.2	21.7
95°	12.4	30.6	139.3	52.6	40.5
97.5°	18.5	40.3	227.1	105.6	67.9
100°	27.4	49.4	280.7	210.2	127.2
102.5°	35.5	57.6	282.5	355.3	248.0
105°	43.4	65.4	263.3	470.6	400.5
107.5°	51.9	73.2	245.5	512.4	503.2
110°	60.4	81.2	233.5	505.6	545.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	68.2	88.8	225.6	482.8	544.4
115°	76.4	96.5	220.3	454.7	527.0
117.5°	84.9	104.1	217.5	427.8	500.7
120°	92.7	111.6	215.0	403.8	475.5
122.5°	100.2	119.2	213.6	385.2	449.2
125°	106.6	126.2	211.8	368.3	427.5
127.5°	111.9	132.8	210.7	354.0	407.2
130°	116.6	138.6	210.0	339.4	390.5
132.5°	120.8	144.2	209.7	324.2	373.1
135°	125.1	149.2	209.3	309.6	354.3
137.5°	129.0	153.5	209.3	294.6	336.2
140°	133.6	157.4	208.9	281.5	317.3
142.5°	138.2	160.6	208.9	268.8	298.5
145°	142.8	164.2	208.2	258.6	282.9
147.5°	147.8	167.0	207.2	249.4	269.0
150°	152.8	169.9	206.1	241.6	256.9
152.5°	157.8	172.7	204.3	235.0	246.6
155°	162.4	175.4	202.2	228.6	237.7
157.5°	166.3	177.5	200.1	222.6	229.9
160°	170.2	179.6	197.9	216.6	222.4
162.5°	174.1	181.2	196.2	210.9	215.3
165°	177.0	182.3	193.7	205.4	208.6
167.5°	179.4	183.4	191.5	200.4	202.2
170°	181.9	183.9	189.8	195.8	196.5
172.5°	183.4	184.4	187.6	191.7	191.9
175°	184.4	184.6	186.2	188.5	188.0
177.5°	185.1	184.8	184.8	186.2	185.1
180°	184.8	184.8	184.8	184.8	184.8

(END OF REPORT)