

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: P999921

Luminaire Tested: SA2XXRDIP-B675D330UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P999921
REPORT IS A COMBINATION OF REPORTS P988478 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-F1
Description: Define 2 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

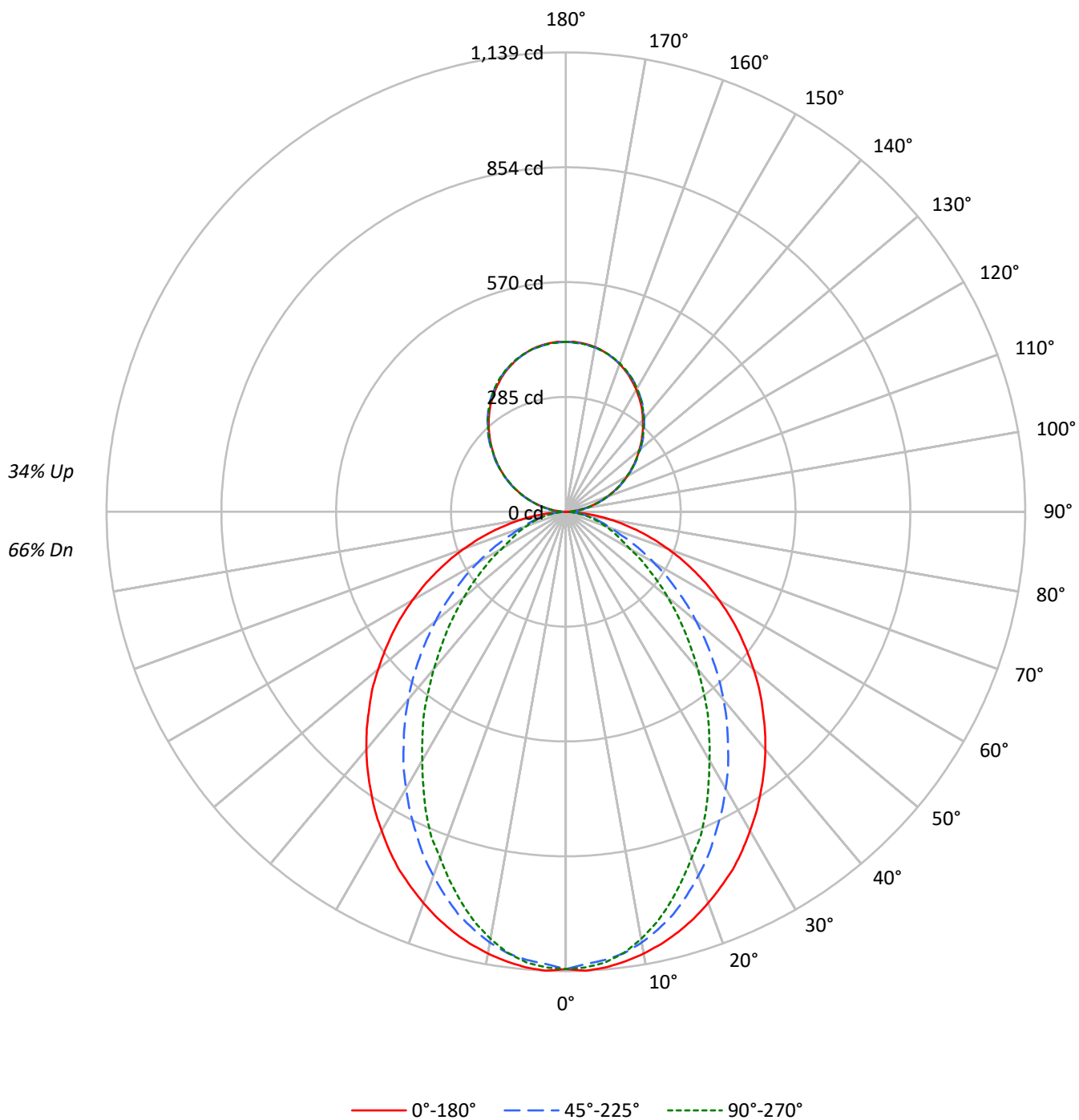
Lumens per Lamp: N/A
Luminaire Lumens: 3511.0 lumens
Efficiency: N/A
Efficacy: 77.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	105	105	105	105	92	92	92	81	81	81	71	71	71
1	102	98	94	91	96	92	89	86	82	80	77	73	71	69	64	63	61
2	94	86	80	75	88	82	76	72	73	69	65	65	62	59	57	55	53
3	86	76	69	64	81	72	66	61	65	60	56	58	54	51	51	48	46
4	79	68	60	54	74	65	58	52	58	52	48	52	47	44	46	43	40
5	73	61	53	47	68	58	51	45	52	46	42	47	42	39	42	38	35
6	67	55	47	41	63	53	45	40	47	41	37	43	38	34	38	34	31
7	62	50	42	37	59	48	41	35	43	37	33	39	34	31	35	31	28
8	58	46	38	33	55	44	37	32	40	34	30	36	31	28	32	28	25
9	54	42	35	30	51	40	33	29	37	31	27	33	28	25	30	26	23
10	51	39	32	27	48	37	30	26	34	28	24	31	26	23	28	24	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	3.0
10°-20°	291.7	8.3
20°-30°	409.6	11.7
30°-40°	446.5	12.7
40°-50°	410.3	11.7
50°-60°	322.3	9.2
60°-70°	209.8	6.0
70°-80°	108.0	3.1
80°-90°	28.8	0.8
90°-100°	26.1	0.7
100°-110°	82.8	2.4
110°-120°	141.8	4.0
120°-130°	186.4	5.3
130°-140°	209.3	6.0
140°-150°	205.2	5.8
150°-160°	172.1	4.9
160°-170°	114.2	3.3
170°-180°	39.9	1.1
0°-30°	807.6	23.0
0°-40°	1254.0	35.7
0°-60°	1986.6	56.6
0°-90°	2333.2	66.5
90°-120°	250.7	7.1
90°-150°	851.6	24.3
90°-180°	1178.0	33.6
0°-180°	3511.0	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°	18	22	23	23	22	21
105°	76	78	78	79	79	81
115°	142	144	144	143	142	141
125°	207	210	209	208	208	185
135°	268	272	272	272	271	207
145°	325	327	330	330	328	203
155°	372	373	374	375	374	171
165°	404	404	404	406	405	114
175°	421	420	419	421	419	40
180°	421	421	421	421	421	

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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	4.6	12.4	11.7	12.1
92.5°	7.8	10.7	11.0	11.4	11.4
95°	18.5	22.0	22.8	22.8	22.0
97.5°	30.9	34.1	35.6	35.6	35.6
100°	45.1	48.0	49.1	49.1	48.7
102.5°	60.1	62.2	63.6	64.0	63.6
105°	76.4	77.5	78.2	78.9	78.9
107.5°	92.8	94.2	94.2	94.6	92.8
110°	108.4	110.6	110.6	110.6	109.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	125.5	127.6	127.3	126.2	125.5
115°	142.2	144.3	143.6	143.3	142.2
117.5°	158.9	161.8	160.0	158.9	157.8
120°	175.6	178.5	175.6	175.6	174.6
122.5°	190.9	194.5	192.7	191.6	190.9
125°	206.9	210.1	209.0	208.0	207.6
127.5°	222.5	226.5	225.0	223.6	222.5
130°	237.1	241.7	241.0	240.3	238.9
132.5°	253.5	257.0	257.4	255.6	254.5
135°	267.7	271.6	272.3	272.0	270.9
137.5°	283.3	286.5	287.2	286.9	285.5
140°	297.2	300.4	302.2	302.2	300.8
142.5°	311.4	314.6	315.7	316.0	314.6
145°	324.9	327.4	329.6	329.9	328.5
147.5°	337.0	340.2	341.6	342.4	340.9
150°	349.5	351.6	353.0	354.1	353.0
152.5°	360.5	362.6	364.4	365.8	364.4
155°	371.5	372.6	373.6	375.4	374.3
157.5°	381.1	381.8	382.5	385.0	383.2
160°	389.6	390.3	390.7	392.8	391.4
162.5°	397.5	397.5	397.8	400.3	398.5
165°	404.2	403.9	403.9	406.3	404.6
167.5°	410.3	409.2	409.2	411.7	409.9
170°	414.9	413.8	413.5	415.9	413.8
172.5°	418.1	417.0	416.7	419.1	417.0
175°	420.6	419.5	418.8	421.3	419.1
177.5°	422.0	420.9	420.2	422.3	420.2
180°	421.3	421.3	421.3	421.3	421.3

(END OF REPORT)