

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: P1000041

Luminaire Tested: SA2XXRDIP-B675D925UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1000041
REPORT IS A COMBINATION OF REPORTS P988598 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B675D925UB30-4F0-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

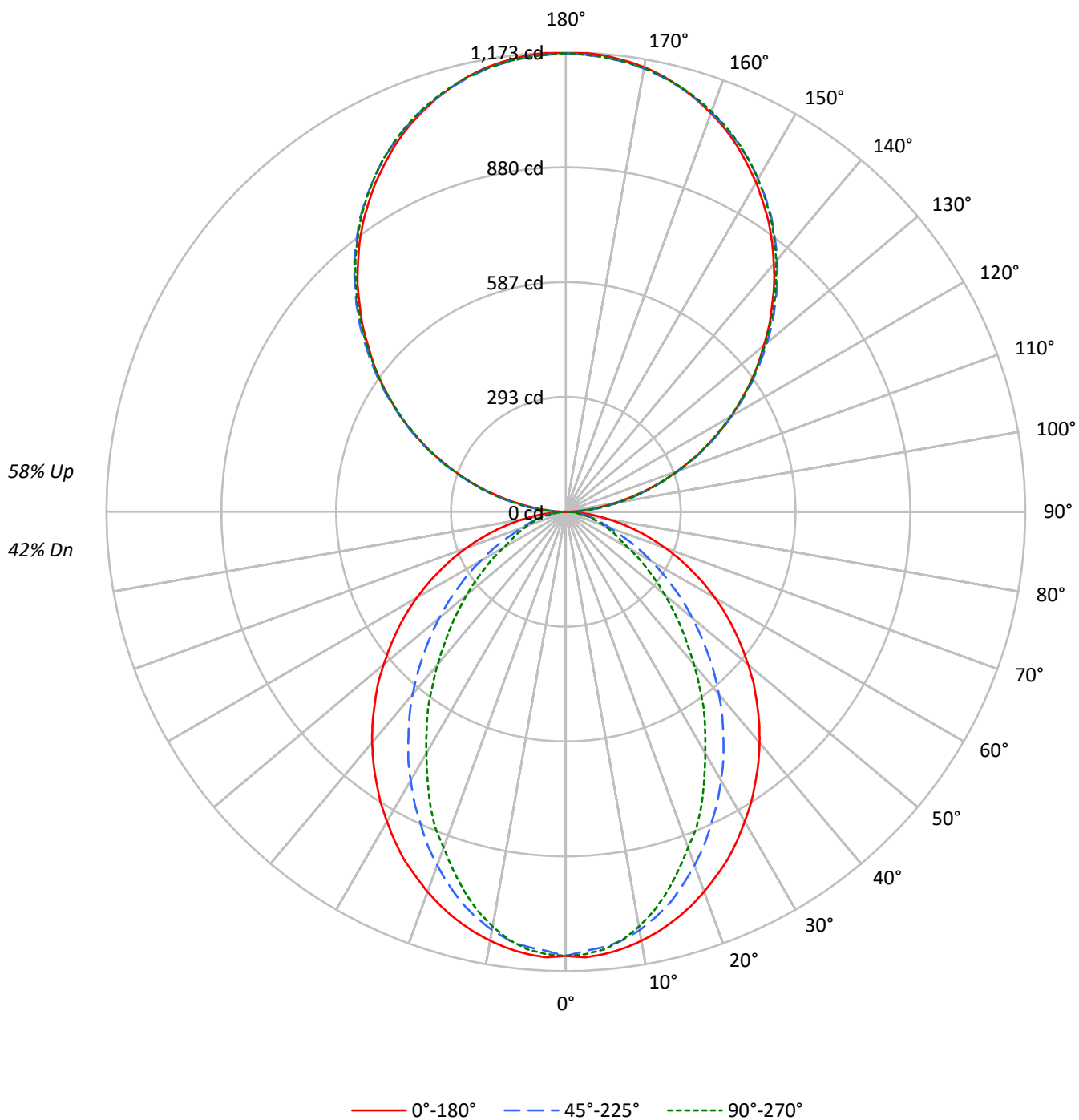
Lumens per Lamp: N/A
Luminaire Lumens: 5609.0 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 64.4
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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	48	48	48
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	42
2	88	81	75	70	80	74	69	65	61	58	55	50	47	45	39	37	36
3	81	71	64	59	73	66	60	55	54	50	46	44	41	38	35	33	31
4	74	63	56	50	67	58	52	47	49	44	40	40	36	33	31	29	27
5	68	57	49	43	62	52	45	40	44	39	35	36	32	29	28	26	24
6	63	51	43	38	57	47	40	35	39	34	30	32	29	26	26	23	21
7	58	46	38	33	53	43	36	31	36	31	27	30	26	23	24	21	19
8	54	42	34	29	49	39	32	27	33	28	24	27	23	20	22	19	17
9	50	38	31	26	46	35	29	25	30	25	21	25	21	18	20	17	15
10	47	35	28	23	43	33	26	22	28	23	19	23	19	17	19	16	14

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	1.9
10°-20°	291.7	5.2
20°-30°	409.6	7.3
30°-40°	446.5	8.0
40°-50°	410.3	7.3
50°-60°	322.3	5.7
60°-70°	209.8	3.7
70°-80°	108.0	1.9
80°-90°	30.9	0.6
90°-100°	72.4	1.3
100°-110°	230.3	4.1
110°-120°	394.0	7.0
120°-130°	518.2	9.2
130°-140°	581.7	10.4
140°-150°	570.4	10.2
150°-160°	478.5	8.5
160°-170°	317.3	5.7
170°-180°	110.9	2.0
0°-30°	807.6	14.4
0°-40°	1254.0	22.4
0°-60°	1986.6	35.4
0°-90°	2335.3	41.6
90°-120°	696.7	12.4
90°-150°	2367.0	42.2
90°-180°	3274.0	58.4
0°-180°	5609.0	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°	1	13	35	33	34	5
95°	51	61	63	63	61	57
105°	212	215	217	219	219	224
115°	395	401	399	398	395	391
125°	575	584	581	578	577	514
135°	744	755	757	756	753	575
145°	903	910	916	917	913	564
155°	1033	1036	1038	1044	1040	475
165°	1124	1122	1122	1129	1124	317
175°	1169	1166	1164	1171	1165	111
180°	1171	1171	1171	1171	1171	

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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°	1.0	12.8	34.6	32.6	33.6
92.5°	21.7	29.6	30.6	31.6	31.6
95°	51.4	61.3	63.2	63.2	61.3
97.5°	86.0	94.9	98.8	98.8	98.8
100°	125.5	133.4	136.4	136.4	135.4
102.5°	167.0	172.9	176.9	177.9	176.9
105°	212.4	215.4	217.4	219.4	219.4
107.5°	257.9	261.9	261.9	262.8	257.9
110°	301.4	307.3	307.3	307.3	304.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	348.8	354.7	353.7	350.8	348.8
115°	395.2	401.2	399.2	398.2	395.2
117.5°	441.7	449.6	444.7	441.7	438.7
120°	488.1	496.0	488.1	488.1	485.2
122.5°	530.6	540.5	535.6	532.6	530.6
125°	575.1	584.0	581.0	578.0	577.1
127.5°	618.6	629.4	625.5	621.5	618.6
130°	659.1	671.9	669.9	668.0	664.0
132.5°	704.5	714.4	715.4	710.5	707.5
135°	744.1	754.9	756.9	755.9	752.9
137.5°	787.5	796.4	798.4	797.4	793.5
140°	826.1	835.0	839.9	839.9	835.9
142.5°	865.6	874.5	877.4	878.4	874.5
145°	903.1	910.1	916.0	917.0	913.0
147.5°	936.7	945.6	949.6	951.6	947.6
150°	971.3	977.2	981.2	984.2	981.2
152.5°	1002.0	1007.9	1012.8	1016.8	1012.8
155°	1032.6	1035.5	1038.5	1043.5	1040.5
157.5°	1059.3	1061.2	1063.2	1070.1	1065.2
160°	1083.0	1085.0	1085.9	1091.9	1087.9
162.5°	1104.7	1104.7	1105.7	1112.6	1107.7
165°	1123.5	1122.5	1122.5	1129.4	1124.5
167.5°	1140.3	1137.3	1137.3	1144.2	1139.3
170°	1153.1	1150.2	1149.2	1156.1	1150.2
172.5°	1162.0	1159.1	1158.1	1165.0	1159.1
175°	1168.9	1166.0	1164.0	1170.9	1165.0
177.5°	1172.9	1169.9	1168.0	1173.9	1168.0
180°	1170.9	1170.9	1170.9	1170.9	1170.9

(END OF REPORT)