

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: P999826

Luminaire Tested: SA2XXRDIP-B485D925UB27-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P999826
REPORT IS A COMBINATION OF REPORTS P988381 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B485D925UB27-4F0-XX-W2A-F
Description: Define 2 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

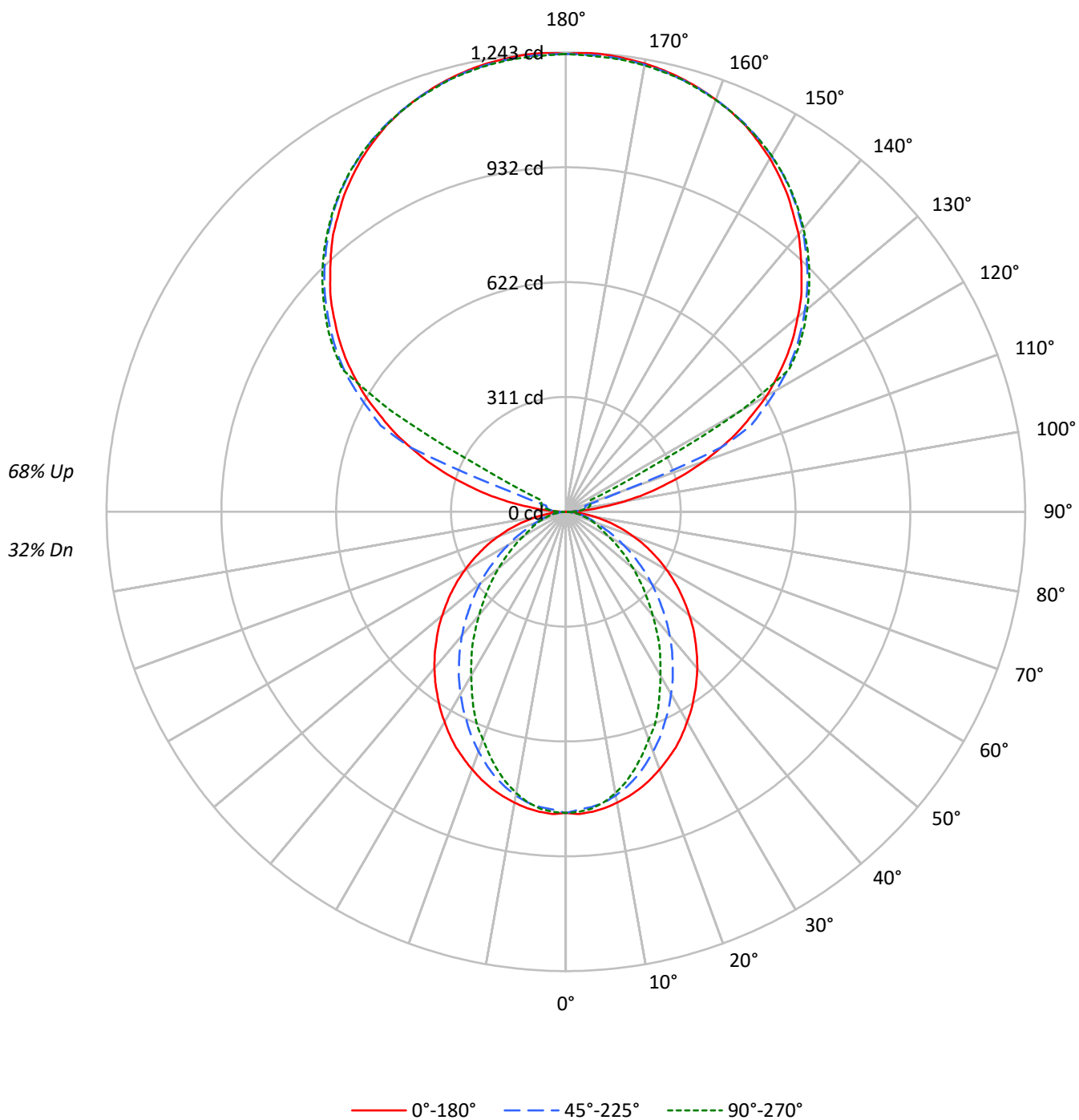
Lumens per Lamp: N/A
Luminaire Lumens: 5309.9 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 52.5
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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39
1	94	90	86	83	84	81	78	75	64	62	60	49	48	47	35	34	34
2	86	79	73	68	77	71	66	62	57	53	50	44	41	39	31	30	29
3	78	69	63	57	70	63	57	52	50	46	43	39	36	34	28	26	25
4	72	62	54	48	64	56	49	44	45	40	37	35	32	29	25	23	22
5	66	55	47	42	59	50	43	38	40	35	32	31	28	25	23	21	19
6	61	49	42	36	55	45	38	33	36	31	28	28	25	22	21	19	17
7	56	44	37	32	50	40	34	29	33	28	24	26	22	20	19	17	15
8	52	40	33	28	47	37	30	26	30	25	22	24	20	18	18	15	14
9	48	37	30	25	44	34	27	23	27	23	19	22	18	16	16	14	12
10	45	34	27	22	41	31	25	21	25	21	17	20	17	14	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12899	12899	12899
5°	12920	12273	12182
10°	12793	11639	11256
15°	12618	10892	10200
20°	12385	10043	9096
25°	12147	9172	8087
30°	11827	8322	6983
35°	11513	7466	6036
40°	11194	6626	5061
45°	10824	5757	4210
50°	10441	4921	3427
55°	10043	4085	2721
60°	9577	3267	2059
65°	9044	2490	1673
70°	8402	1806	1330
75°	7591	1378	1016
80°	6419	933	681
85°	4478	427	329

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10824 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.4	1.4
10°-20°	209.7	3.9
20°-30°	294.4	5.5
30°-40°	320.9	6.0
40°-50°	294.9	5.6
50°-60°	231.6	4.4
60°-70°	150.7	2.8
70°-80°	77.6	1.5
80°-90°	22.0	0.4
90°-100°	40.9	0.8
100°-110°	152.3	2.9
110°-120°	403.9	7.6
120°-130°	669.8	12.6
130°-140°	711.5	13.4
140°-150°	661.3	12.5
150°-160°	531.6	10.0
160°-170°	342.6	6.5
170°-180°	117.9	2.2
0°-30°	580.4	10.9
0°-40°	901.3	17.0
0°-60°	1427.8	26.9
0°-90°	1678.1	31.6
90°-120°	597.0	11.2
90°-150°	2639.6	49.7
90°-180°	3632.0	68.4
0°-180°	5309.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	815	815	815	815	815	
5°	815	811	802	808	806	77
15°	775	767	742	728	720	218
25°	704	680	631	601	590	324
35°	606	569	504	457	441	379
45°	496	446	369	316	299	383
55°	377	319	240	195	181	337
65°	254	195	128	103	101	252
75°	136	84	59	54	53	144
85°	32	16	14	14	14	36
90°	1	11	18	22	24	5
95°	58	29	35	39	38	69
105°	272	299	55	64	68	291
115°	515	531	553	138	74	507
125°	729	740	758	764	766	650
135°	902	916	924	933	931	697
145°	1046	1045	1060	1067	1062	654
155°	1152	1144	1155	1160	1153	531
165°	1214	1208	1211	1217	1211	343
175°	1242	1235	1237	1243	1234	118
180°	1239	1239	1239	1239	1239	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	814.9	814.9	814.9	814.9	814.9
2.5°	818.6	814.9	806.8	814.2	812.7
5°	814.9	811.2	801.7	808.3	806.1
7.5°	808.3	803.9	793.5	796.5	792.8
10°	799.4	794.3	779.5	777.3	772.9
12.5°	788.4	781.7	761.8	757.4	749.3
15°	775.1	767.0	741.9	727.9	720.5
17.5°	759.6	747.8	716.8	700.6	688.8
20°	741.9	727.2	690.3	671.9	655.6
22.5°	722.7	705.8	663.0	637.9	626.9
25°	703.6	680.0	631.3	601.1	590.0
27.5°	680.7	655.6	601.8	567.1	550.2
30°	656.4	628.3	569.3	531.7	511.8
32.5°	632.8	598.8	538.4	494.1	475.7
35°	606.2	568.6	503.7	457.2	441.0
37.5°	580.4	539.8	471.3	420.4	401.9
40°	553.1	508.9	437.3	385.0	365.8
42.5°	525.1	477.9	403.4	348.8	330.4
45°	495.6	446.2	368.7	316.4	298.7
47.5°	467.6	415.2	335.6	283.2	267.0
50°	436.6	384.2	303.1	252.2	236.7
52.5°	406.4	351.0	272.1	223.5	209.4
55°	376.9	319.3	239.7	195.4	181.4
57.5°	346.6	287.6	210.9	169.6	157.8
60°	315.6	256.6	180.7	143.1	131.3
62.5°	285.4	226.4	154.9	119.5	113.6
65°	254.4	194.7	128.3	103.2	101.0
67.5°	224.9	165.2	103.2	90.7	88.5
70°	194.0	136.4	85.5	78.2	75.2
72.5°	164.5	109.9	71.5	65.6	64.2
75°	135.7	84.1	59.0	53.8	53.1
77.5°	106.9	59.7	46.5	43.5	42.0
80°	80.4	42.8	35.4	32.4	32.4
82.5°	56.0	28.8	24.3	22.9	22.9
85°	31.7	16.2	14.0	14.0	14.0
87.5°	11.8	5.9	5.9	5.2	5.2
90°	0.9	10.8	17.9	22.4	24.2
92.5°	22.4	18.8	21.5	23.3	24.2
95°	58.3	28.7	35.0	39.4	38.5
97.5°	104.9	31.4	45.7	48.4	49.3
100°	158.7	35.9	51.1	58.3	60.1
102.5°	217.8	216.0	52.9	62.7	65.4
105°	272.5	299.4	54.7	64.5	68.1
107.5°	336.2	358.6	56.5	66.3	69.9
110°	397.1	415.9	156.9	67.2	70.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	454.5	470.6	455.4	69.0	71.7
115°	515.4	530.7	553.1	138.0	73.5
117.5°	568.3	586.2	601.5	473.3	238.4
120°	627.5	640.9	657.1	667.8	546.8
122.5°	677.7	692.0	710.0	715.3	716.2
125°	728.8	740.4	757.5	763.7	766.4
127.5°	775.4	787.9	801.4	810.4	811.2
130°	819.3	833.7	843.5	853.4	852.5
132.5°	864.1	875.8	885.6	893.7	892.8
135°	901.8	916.1	924.2	933.2	931.4
137.5°	941.2	952.0	960.9	969.9	967.2
140°	979.8	986.9	996.8	1004.9	1000.4
142.5°	1012.0	1018.3	1030.0	1037.1	1032.7
145°	1046.1	1045.2	1060.4	1066.7	1062.2
147.5°	1075.7	1073.0	1088.2	1092.7	1089.1
150°	1104.4	1098.1	1112.4	1117.8	1113.3
152.5°	1128.6	1121.4	1134.8	1140.2	1134.0
155°	1151.9	1143.8	1154.6	1159.9	1152.8
157.5°	1170.7	1163.5	1171.6	1177.9	1170.7
160°	1186.8	1181.5	1186.8	1192.2	1185.9
162.5°	1201.2	1195.8	1200.3	1206.6	1198.5
165°	1213.7	1208.4	1211.0	1217.3	1211.0
167.5°	1223.6	1218.2	1220.9	1227.2	1219.1
170°	1231.7	1226.3	1228.1	1234.3	1226.3
172.5°	1237.0	1231.7	1233.5	1239.7	1231.7
175°	1241.5	1235.2	1237.0	1243.3	1234.3
177.5°	1243.3	1237.0	1237.9	1244.2	1236.1
180°	1238.8	1238.8	1238.8	1238.8	1238.8

(END OF REPORT)