

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: P999843

Luminaire Tested: SA2XXRDIP-B485D925UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P999843
REPORT IS A COMBINATION OF REPORTS P988398 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B485D925UB30-4F0-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

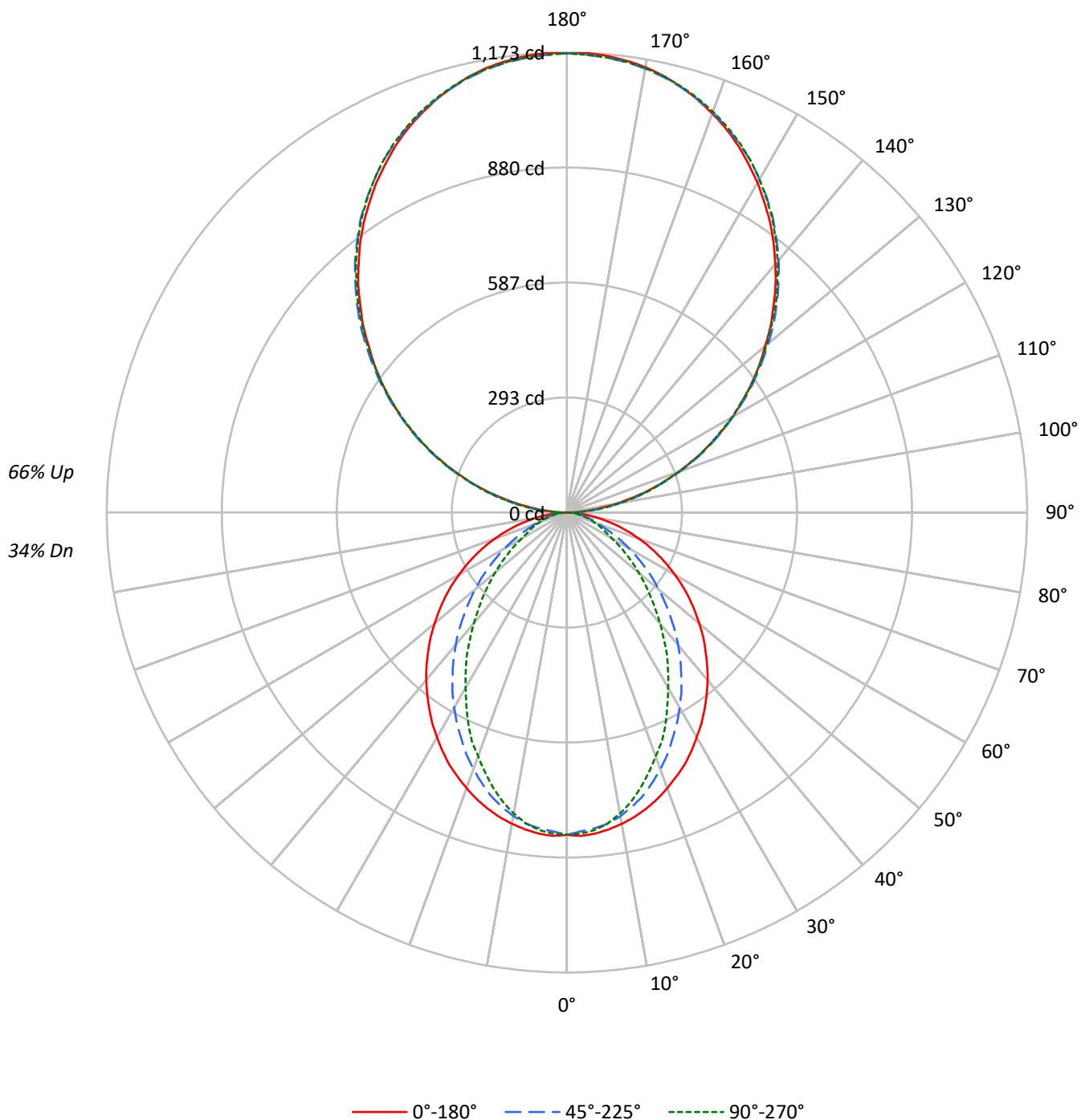
Lumens per Lamp: N/A
Luminaire Lumens: 4967.0 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	93	93	93	93	74	74	74	57	57	57	42	42	42
1	95	90	87	83	85	82	79	76	66	64	62	51	49	48	37	36	36
2	86	79	74	69	78	72	67	63	58	54	52	45	43	41	33	32	30
3	79	70	63	57	71	63	58	53	51	47	44	40	37	35	30	28	26
4	72	62	55	49	65	56	50	45	46	41	37	36	33	30	27	25	23
5	66	55	48	42	60	50	44	39	41	36	32	32	29	26	24	22	20
6	61	50	42	36	55	45	39	34	37	32	28	29	26	23	22	20	18
7	57	45	37	32	51	41	34	30	34	29	25	27	23	20	20	18	16
8	52	41	33	28	47	37	31	26	31	26	22	24	21	18	19	16	14
9	49	37	30	25	44	34	28	23	28	23	20	22	19	16	17	15	13
10	46	34	27	22	41	31	25	21	26	21	18	21	17	15	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13007	13007	13007
5°	13028	12374	12283
10°	12900	11736	11349
15°	12723	10983	10285
20°	12488	10128	9173
25°	12247	9249	8154
30°	11924	8392	7042
35°	11610	7529	6086
40°	11287	6682	5104
45°	10913	5806	4245
50°	10527	4962	3456
55°	10126	4119	2743
60°	9659	3294	2076
65°	9122	2511	1688
70°	8471	1823	1343
75°	7653	1390	1024
80°	6475	941	687
85°	4520	430	332

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10913 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.0	1.6
10°-20°	211.4	4.3
20°-30°	296.8	6.0
30°-40°	323.6	6.5
40°-50°	297.4	6.0
50°-60°	233.5	4.7
60°-70°	152.0	3.1
70°-80°	78.3	1.6
80°-90°	23.3	0.5
90°-100°	72.4	1.5
100°-110°	230.3	4.6
110°-120°	394.0	7.9
120°-130°	518.2	10.4
130°-140°	581.7	11.7
140°-150°	570.4	11.5
150°-160°	478.5	9.6
160°-170°	317.3	6.4
170°-180°	110.9	2.2
0°-30°	585.3	11.8
0°-40°	908.8	18.3
0°-60°	1439.7	29.0
0°-90°	1693.3	34.1
90°-120°	696.7	14.0
90°-150°	2367.0	47.7
90°-180°	3274.0	65.9
0°-180°	4967.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	822	822	822	822	822	
5°	822	818	808	815	813	78
15°	782	773	748	734	726	220
25°	709	686	637	606	595	326
35°	611	573	508	461	445	383
45°	500	450	372	319	301	386
55°	380	322	242	197	183	340
65°	257	196	129	104	102	254
75°	137	85	60	54	54	145
85°	32	16	14	14	14	37
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°	821.7	821.7	821.7	821.7	821.7
2.5°	825.5	821.7	813.6	821.0	819.5
5°	821.7	818.0	808.3	815.0	812.8
7.5°	815.0	810.6	800.2	803.1	799.4
10°	806.1	800.9	786.0	783.8	779.3
12.5°	795.0	788.3	768.2	763.7	755.5
15°	781.6	773.4	748.1	734.0	726.5
17.5°	766.0	754.1	722.8	706.5	694.6
20°	748.1	733.2	696.1	677.5	661.1
22.5°	728.8	711.7	668.5	643.3	632.1
25°	709.4	685.6	636.6	606.1	594.9
27.5°	686.4	661.1	606.8	571.9	554.8
30°	661.8	633.6	574.1	536.2	516.1
32.5°	638.1	603.8	542.9	498.2	479.7
35°	611.3	573.4	507.9	461.1	444.7
37.5°	585.3	544.4	475.2	423.9	405.3
40°	557.7	513.1	441.0	388.2	368.9
42.5°	529.5	481.9	406.8	351.7	333.2
45°	499.7	449.9	371.8	319.0	301.2
47.5°	471.5	418.7	338.4	285.6	269.2
50°	440.2	387.4	305.6	254.3	238.7
52.5°	409.8	354.0	274.4	225.3	211.2
55°	380.0	322.0	241.7	197.1	182.9
57.5°	349.5	290.0	212.7	171.0	159.1
60°	318.3	258.8	182.2	144.3	132.4
62.5°	287.8	228.3	156.2	120.5	114.5
65°	256.6	196.3	129.4	104.1	101.9
67.5°	226.8	166.6	104.1	91.5	89.2
70°	195.6	137.6	86.3	78.8	75.9
72.5°	165.8	110.8	72.1	66.2	64.7
75°	136.8	84.8	59.5	54.3	53.5
77.5°	107.8	60.2	46.8	43.9	42.4
80°	81.1	43.1	35.7	32.7	32.7
82.5°	56.5	29.0	24.5	23.1	23.1
85°	32.0	16.4	14.1	14.1	14.1
87.5°	11.9	5.9	5.9	5.2	5.2
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)