

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1060739

Luminaire Tested: S124RDRP-H1195D850-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060739
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-76)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDRP-H1195D850-X4F0-XX-UDD-WVL-S
Description: DEFINE 4 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

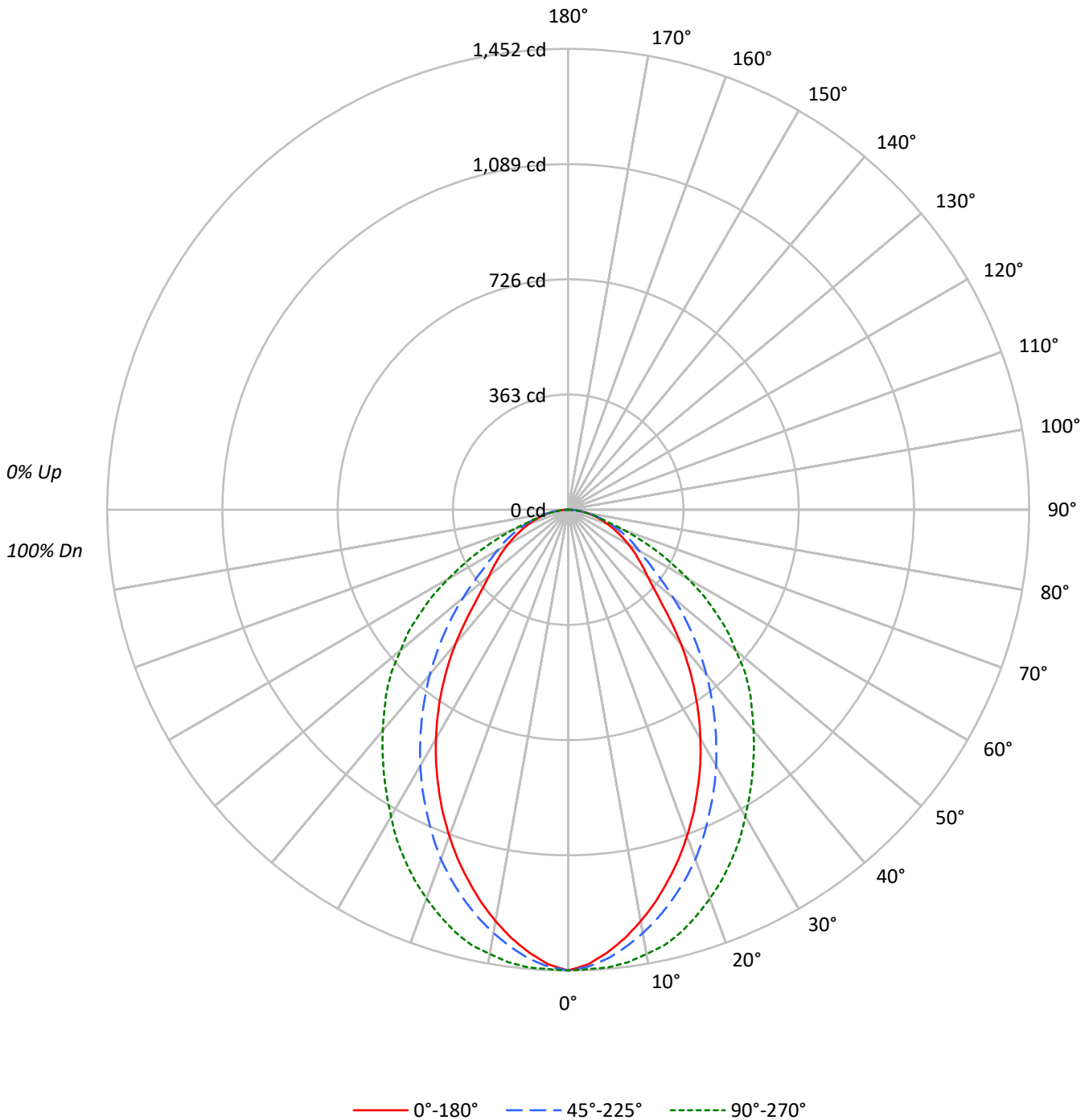
Lumens per Lamp: N/A
Luminaire Lumens: 2643.3 lumens
Efficiency: N/A
Efficacy: 72.4 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 1.15 / 1.1
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 36.5
Input Voltage (V): 120
Input Current (A_{in}): 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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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.1	5.1
10°-20°	360.3	13.6
20°-30°	492.0	18.6
30°-40°	515.5	19.5
40°-50°	446.2	16.9
50°-60°	335.2	12.7
60°-70°	216.2	8.2
70°-80°	110.8	4.2
80°-90°	33.1	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	986.4	37.3
0°-40°	1501.8	56.8
0°-60°	2283.2	86.4
0°-90°	2643.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2643.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1452	1452	1452	1452	1452	
5°	1402	1423	1420	1431	1447	131
15°	1212	1242	1271	1329	1377	340
25°	966	1003	1053	1135	1218	443
35°	694	734	804	910	1012	432
45°	414	457	552	688	808	326
55°	269	278	327	467	569	242
65°	174	176	204	247	306	172
75°	94	105	106	105	102	100
85°	27	32	30	29	23	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1451.9	1451.9	1451.9	1451.9	1451.9
2.5°	1433.7	1451.9	1441.3	1444.3	1448.9
5°	1401.7	1423.0	1420.0	1430.6	1447.4
7.5°	1362.1	1385.0	1389.5	1413.9	1438.2
10°	1316.5	1342.3	1354.5	1391.0	1421.5
12.5°	1266.2	1293.6	1314.9	1360.6	1404.7
15°	1211.5	1241.9	1270.8	1328.6	1377.3
17.5°	1155.1	1185.6	1223.6	1287.5	1342.3
20°	1094.3	1127.7	1171.9	1238.8	1304.3
22.5°	1031.9	1066.9	1114.1	1187.1	1263.2
25°	966.4	1002.9	1053.2	1135.4	1217.5
27.5°	901.0	937.5	993.8	1080.6	1170.4
30°	832.5	870.5	931.4	1025.8	1115.6
32.5°	764.0	805.1	867.5	967.9	1063.8
35°	694.0	733.6	803.6	910.1	1012.1
37.5°	624.0	665.1	739.7	853.8	960.3
40°	552.5	595.1	677.3	797.5	908.6
42.5°	480.9	526.6	613.3	739.7	856.8
45°	414.0	456.6	552.5	687.9	808.1
47.5°	363.7	392.7	491.6	637.7	753.4
50°	325.7	340.9	432.2	582.9	687.9
52.5°	296.8	307.4	377.4	523.5	634.6
55°	269.4	278.5	327.2	467.2	569.2
57.5°	245.0	249.6	289.2	412.4	506.8
60°	219.2	223.7	257.2	353.1	435.3
62.5°	196.3	199.4	231.3	296.8	369.8
65°	173.5	176.5	203.9	246.6	305.9
67.5°	152.2	156.8	178.1	200.9	243.5
70°	130.9	140.0	152.2	162.8	187.2
72.5°	112.6	121.8	127.8	130.9	132.4
75°	94.4	105.0	106.5	105.0	102.0
77.5°	76.1	85.2	85.2	82.2	79.1
80°	59.4	67.0	65.4	62.4	57.8
82.5°	44.1	48.7	47.2	44.1	39.6
85°	27.4	32.0	30.4	28.9	22.8
87.5°	13.7	18.3	16.7	15.2	9.1
90°	0.0	0.0	0.0	0.0	0.0



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	15.21	16.69	15.57	17.01	17.32	18.98	20.47	19.35	20.78	21.09
	3H	16.86	18.19	17.24	18.52	18.88	20.10	21.42	20.47	21.75	22.11
	4H	17.53	18.78	17.93	19.13	19.51	20.39	21.63	20.79	21.98	22.36
	6H	18.05	19.20	18.46	19.56	19.96	20.58	21.73	21.00	22.10	22.49
	8H	18.23	19.32	18.66	19.71	20.11	20.64	21.73	21.06	22.12	22.52
	12H	18.35	19.40	18.78	19.78	20.21	20.66	21.71	21.09	22.09	22.52
4H	2H	15.99	17.24	16.39	17.59	17.96	19.14	20.39	19.54	20.73	21.11
	3H	17.85	18.89	18.26	19.29	19.69	20.45	21.48	20.86	21.89	22.29
	4H	18.66	19.59	19.09	20.01	20.45	20.86	21.79	21.29	22.21	22.64
	6H	19.31	20.12	19.77	20.56	21.02	21.18	21.98	21.63	22.43	22.89
	8H	19.54	20.29	20.00	20.74	21.20	21.27	22.02	21.73	22.47	22.94
	12H	19.71	20.38	20.19	20.86	21.33	21.33	22.00	21.81	22.48	22.95
8H	4H	19.01	19.76	19.47	20.21	20.68	20.99	21.75	21.46	22.19	22.66
	6H	19.80	20.43	20.30	20.92	21.40	21.40	22.03	21.90	22.52	23.00
	8H	20.12	20.68	20.64	21.19	21.68	21.56	22.12	22.07	22.63	23.11
	12H	20.39	20.88	20.90	21.38	21.94	21.68	22.17	22.19	22.67	23.23
12H	4H	19.04	19.71	19.52	20.19	20.66	21.00	21.67	21.48	22.15	22.62
	6H	19.87	20.43	20.38	20.94	21.43	21.43	21.99	21.94	22.50	22.99
	8H	20.25	20.75	20.76	21.24	21.81	21.63	22.12	22.14	22.62	23.18