

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: P1061545

Luminaire Tested: S125RDRP-S1270D850-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061545
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-47)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S1270D850-X4F0-XX-UDD-SVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

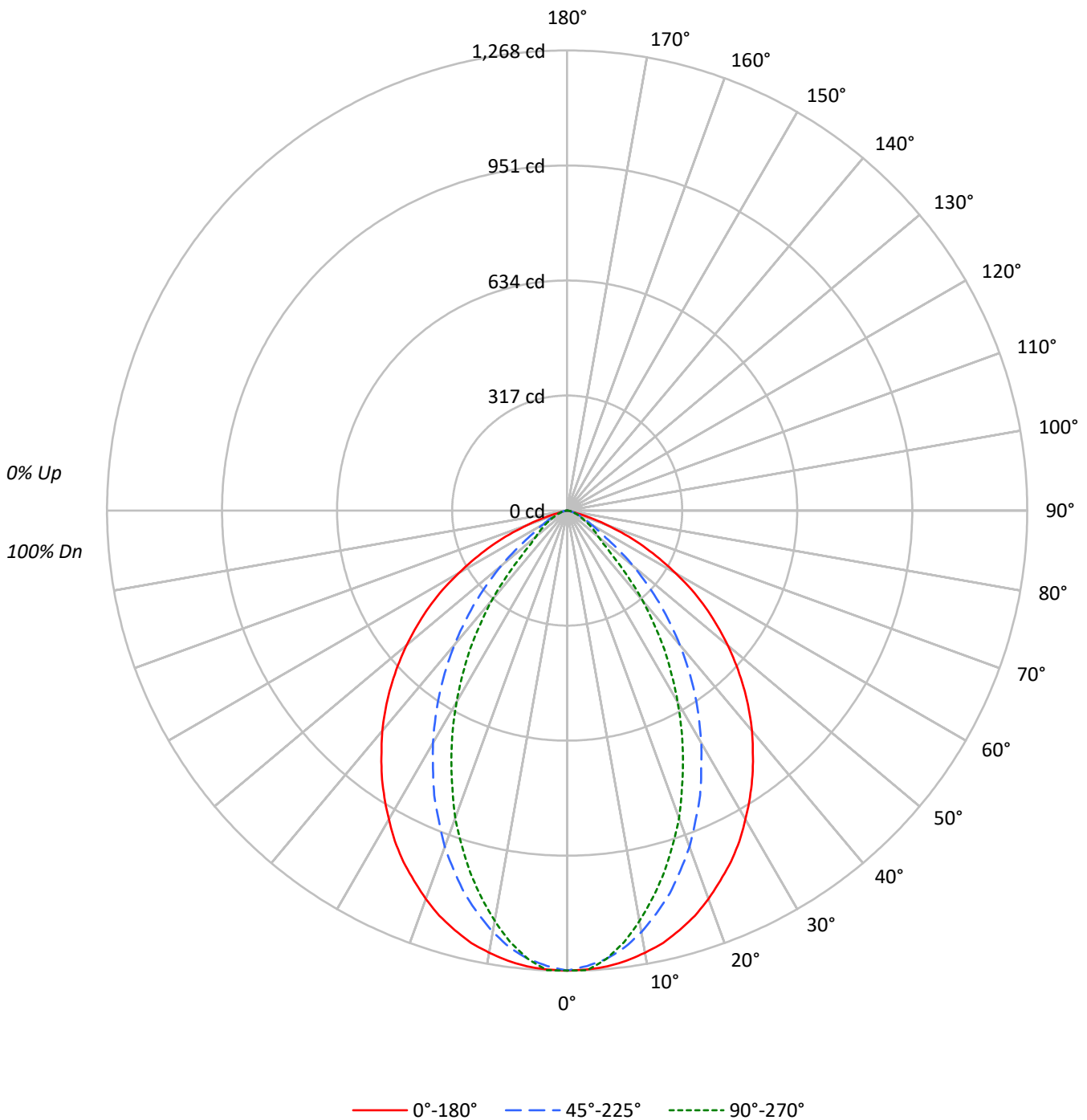
Lumens per Lamp: N/A
Luminaire Lumens: 1833.0 lumens
Efficiency: N/A
Efficacy: 43.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
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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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									20									
RC	80									70									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																														
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																												
1	112	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90																												
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80																												
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71																												
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63																												
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57																												
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52																												
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47																												
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43																												
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39																												
10	62	50	43	38	61	50	43	38	49	43	38	48	42	38	47	42	38	36																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8727	8727	8727
5°	8715	8571	8571
10°	8648	8242	8028
15°	8530	7783	7358
20°	8343	7222	6608
25°	8112	6582	5738
30°	7810	5877	4840
35°	7486	5144	3925
40°	7122	4342	2909
45°	6696	3481	1757
50°	6193	2554	1207
55°	5587	1567	1005
60°	4745	1064	799
65°	3752	813	630
70°	2367	584	519
75°	771	428	428
80°	254	321	385
85°	126	253	253

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6696 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.2	6.4
10°-20°	309.6	16.9
20°-30°	407.2	22.2
30°-40°	400.1	21.8
40°-50°	302.7	16.5
50°-60°	183.5	10.0
60°-70°	86.7	4.7
70°-80°	22.6	1.2
80°-90°	3.4	0.2
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°	834.0	45.5
0°-40°	1234.1	67.3
0°-60°	1720.4	93.9
0°-90°	1833.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1833.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1268	1268	1268	1268	1268	
5°	1261	1258	1240	1242	1240	120
15°	1197	1164	1092	1050	1032	337
25°	1068	987	866	786	755	491
35°	891	771	612	504	467	556
45°	688	541	358	227	180	530
55°	465	319	130	89	84	414
65°	230	118	50	42	39	227
75°	29	19	16	16	16	45
85°	2	2	3	3	3	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1267.5	1267.5	1267.5	1267.5	1267.5
2.5°	1265.9	1265.9	1256.2	1267.5	1267.5
5°	1261.0	1257.8	1240.1	1241.7	1240.1
7.5°	1251.4	1244.9	1214.3	1206.3	1199.8
10°	1236.9	1224.0	1178.9	1159.6	1148.3
12.5°	1220.8	1198.2	1137.0	1109.6	1091.9
15°	1196.6	1164.4	1091.9	1050.0	1032.3
17.5°	1170.8	1124.1	1038.8	988.8	966.3
20°	1138.6	1083.9	985.6	924.4	901.9
22.5°	1103.2	1038.8	924.4	856.8	826.2
25°	1067.8	987.2	866.4	785.9	755.3
27.5°	1027.5	935.7	800.4	716.7	682.9
30°	982.4	884.2	739.2	652.3	608.8
32.5°	937.3	831.0	674.8	579.8	536.3
35°	890.6	771.4	612.0	504.1	467.0
37.5°	840.7	715.1	547.6	434.8	391.4
40°	792.4	658.7	483.1	364.0	323.7
42.5°	740.8	602.3	418.7	294.7	249.6
45°	687.7	541.1	357.5	227.1	180.4
47.5°	632.9	486.4	296.3	167.5	135.3
50°	578.2	428.4	238.4	124.0	112.7
52.5°	521.8	372.0	180.4	103.1	98.2
55°	465.4	318.9	130.5	88.6	83.7
57.5°	407.5	260.9	98.2	75.7	70.9
60°	344.6	209.4	77.3	62.8	58.0
62.5°	286.7	164.3	62.8	51.5	48.3
65°	230.3	117.6	49.9	41.9	38.7
67.5°	172.3	78.9	38.7	32.2	32.2
70°	117.6	51.5	29.0	25.8	25.8
72.5°	70.9	30.6	20.9	20.9	20.9
75°	29.0	19.3	16.1	16.1	16.1
77.5°	9.7	11.3	11.3	12.9	12.9
80°	6.4	6.4	8.1	9.7	9.7
82.5°	3.2	4.8	4.8	6.4	6.4
85°	1.6	1.6	3.2	3.2	3.2
87.5°	0.0	0.0	0.0	1.6	1.6
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	16.86	18.19	17.22	18.50	18.82	7.51	8.84	7.88	9.16	9.47
	3H	17.56	18.74	17.94	19.07	19.43	8.29	9.47	8.67	9.80	10.17
	4H	17.58	18.67	17.98	19.03	19.41	8.54	9.64	8.94	9.99	10.37
	6H	17.51	18.51	17.92	18.88	19.28	8.72	9.73	9.14	10.10	10.49
	8H	17.47	18.42	17.90	18.81	19.22	8.77	9.72	9.20	10.11	10.51
	12H	17.43	18.34	17.86	18.72	19.15	8.77	9.68	9.21	10.07	10.50
4H	2H	16.69	17.78	17.09	18.13	18.52	8.00	9.09	8.40	9.45	9.83
	3H	17.43	18.32	17.85	18.73	19.13	8.91	9.80	9.32	10.20	10.61
	4H	17.45	18.25	17.89	18.67	19.11	9.22	10.01	9.65	10.43	10.88
	6H	17.39	18.07	17.85	18.52	18.99	9.48	10.16	9.94	10.61	11.08
	8H	17.34	17.98	17.81	18.42	18.89	9.55	10.18	10.01	10.63	11.10
	12H	17.29	17.86	17.78	18.34	18.81	9.57	10.13	10.06	10.62	11.09
8H	4H	17.33	17.97	17.80	18.42	18.89	9.33	9.97	9.80	10.42	10.89
	6H	17.26	17.78	17.76	18.27	18.76	9.65	10.17	10.15	10.67	11.15
	8H	17.20	17.67	17.73	18.19	18.68	9.76	10.22	10.28	10.74	11.23
	12H	17.16	17.58	17.68	18.07	18.64	9.82	10.23	10.33	10.72	11.29
12H	4H	17.29	17.85	17.78	18.34	18.81	9.30	9.87	9.79	10.35	10.82
	6H	17.20	17.67	17.72	18.18	18.67	9.62	10.09	10.15	10.60	11.10
	8H	17.17	17.58	17.68	18.07	18.64	9.76	10.17	10.28	10.67	11.24