

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: P1061534

Luminaire Tested: S125RDRP-S1270D840-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061534
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-87)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S1270D840-X4F0-XX-UDD-BVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

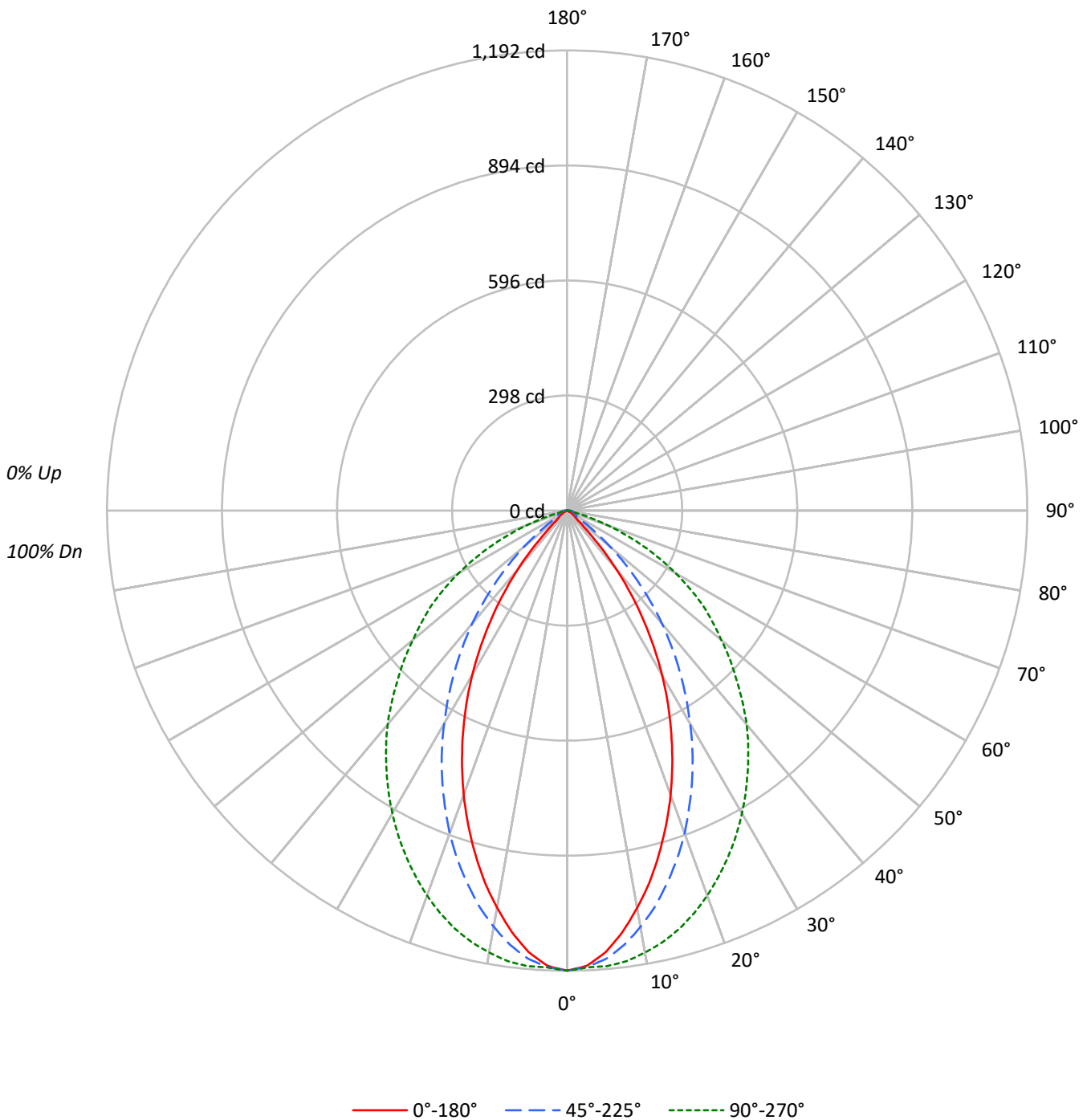
Lumens per Lamp: N/A
Luminaire Lumens: 1532.9 lumens
Efficiency: N/A
Efficacy: 36.7 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	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	98	98	96	95	95	93	92	90																												
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81																												
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72																												
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65																												
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59																												
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54																												
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49																												
8	71	60	52	47	69	59	52	47	58	52	47	57	51	47	55	50	47	45																												
9	67	55	48	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42																												
10	63	52	45	41	62	51	45	40	50	44	40	50	44	40	49	44	40	39																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8206	8206	8206
5°	7933	8055	8187
10°	7307	7656	8128
15°	6560	7125	7993
20°	5743	6517	7776
25°	4851	5821	7504
30°	3909	5064	7200
35°	2875	4269	6860
40°	1794	3443	6504
45°	672	2515	6046
50°	315	1572	5582
55°	229	652	5163
60°	161	344	4467
65°	96	407	3539
70°	89	473	2247
75°	117	468	702
80°	174	583	523
85°	348	924	695

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6046 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.3	7.1
10°-20°	282.9	18.5
20°-30°	360.4	23.5
30°-40°	335.5	21.9
40°-50°	229.9	15.0
50°-60°	126.6	8.3
60°-70°	59.9	3.9
70°-80°	18.8	1.2
80°-90°	9.6	0.6
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°	752.7	49.1
0°-40°	1088.1	71.0
0°-60°	1444.6	94.2
0°-90°	1532.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1532.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1192	1192	1192	1192	1192	
5°	1148	1162	1165	1174	1184	106
15°	920	950	1000	1074	1121	257
25°	638	678	766	890	988	291
35°	342	390	508	675	816	212
45°	69	116	258	458	621	66
55°	19	22	54	255	430	17
65°	6	7	25	94	217	7
75°	4	7	18	19	26	5
85°	4	10	12	10	9	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1191.8	1191.8	1191.8	1191.8	1191.8
2.5°	1180.1	1191.8	1183.0	1183.0	1184.5
5°	1147.8	1162.5	1165.4	1174.2	1184.5
7.5°	1100.8	1119.9	1134.6	1159.5	1177.2
10°	1045.1	1068.5	1095.0	1136.1	1162.5
12.5°	986.3	1011.3	1050.9	1108.2	1144.9
15°	920.3	949.7	999.6	1074.4	1121.4
17.5°	852.8	885.1	946.7	1034.8	1093.5
20°	783.8	817.6	889.5	987.8	1061.2
22.5°	711.9	748.6	827.8	939.4	1026.0
25°	638.5	678.1	766.2	889.5	987.8
27.5°	565.1	606.2	703.1	838.1	948.2
30°	491.7	534.3	637.0	785.3	905.6
32.5°	416.8	463.8	572.4	732.4	861.6
35°	342.0	390.4	507.9	675.2	816.1
37.5°	268.6	318.5	444.7	620.9	770.6
40°	199.6	249.5	383.1	566.6	723.6
42.5°	129.2	182.0	318.5	510.8	672.2
45°	69.0	116.0	258.3	457.9	620.9
47.5°	36.7	61.6	201.1	405.1	572.4
50°	29.4	33.8	146.8	352.3	521.1
52.5°	23.5	26.4	93.9	298.0	475.6
55°	19.1	22.0	54.3	255.4	430.1
57.5°	14.7	17.6	30.8	212.8	377.2
60°	11.7	13.2	25.0	170.3	324.4
62.5°	7.3	10.3	25.0	132.1	271.5
65°	5.9	7.3	25.0	93.9	217.2
67.5°	5.9	5.9	25.0	61.6	162.9
70°	4.4	4.4	23.5	39.6	111.6
72.5°	4.4	4.4	20.5	26.4	64.6
75°	4.4	7.3	17.6	19.1	26.4
77.5°	4.4	11.7	16.1	16.1	14.7
80°	4.4	11.7	14.7	13.2	13.2
82.5°	4.4	11.7	11.7	11.7	10.3
85°	4.4	10.3	11.7	10.3	8.8
87.5°	4.4	10.3	10.3	10.3	5.9
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	0.00	0.00	0.00	0.00	0.00	16.36	17.64	16.72	17.96	18.27
	3H	0.00	0.00	0.00	0.00	0.17	17.14	18.28	17.52	18.61	18.98
	4H	0.00	0.00	0.00	0.23	0.61	17.17	18.23	17.57	18.58	18.96
	6H	0.04	1.01	0.46	1.38	1.78	17.13	18.10	17.54	18.47	18.86
	8H	0.72	1.64	1.15	2.03	2.43	17.10	18.02	17.53	18.41	18.82
	12H	1.47	2.34	1.90	2.73	3.16	17.08	17.96	17.52	18.35	18.78
4H	2H	0.14	1.20	0.55	1.55	1.94	16.14	17.20	16.54	17.55	17.93
	3H	1.02	1.88	1.43	2.28	2.69	16.97	17.83	17.38	18.24	18.64
	4H	1.61	2.38	2.04	2.80	3.24	17.00	17.77	17.44	18.19	18.64
	6H	3.10	3.76	3.56	4.21	4.68	16.99	17.65	17.45	18.10	18.57
	8H	3.84	4.46	4.31	4.90	5.38	16.97	17.59	17.44	18.04	18.51
	12H	4.58	5.13	5.07	5.61	6.09	16.98	17.52	17.46	18.01	18.48
8H	4H	3.64	4.26	4.11	4.71	5.18	16.89	17.51	17.36	17.96	18.43
	6H	5.39	5.89	5.89	6.39	6.87	16.89	17.40	17.39	17.89	18.37
	8H	6.33	6.79	6.86	7.30	7.80	16.90	17.35	17.42	17.87	18.36
	12H	7.27	7.67	7.79	8.17	8.74	16.94	17.34	17.46	17.84	18.41
12H	4H	3.95	4.49	4.43	4.98	5.45	16.85	17.39	17.33	17.88	18.35
	6H	5.84	6.30	6.37	6.81	7.31	16.84	17.30	17.37	17.82	18.31
	8H	6.97	7.37	7.49	7.87	8.44	16.88	17.28	17.40	17.78	18.35