

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: P1061624

Luminaire Tested: S125RDRP-S375D850-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061624
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-S375D850-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: 5000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

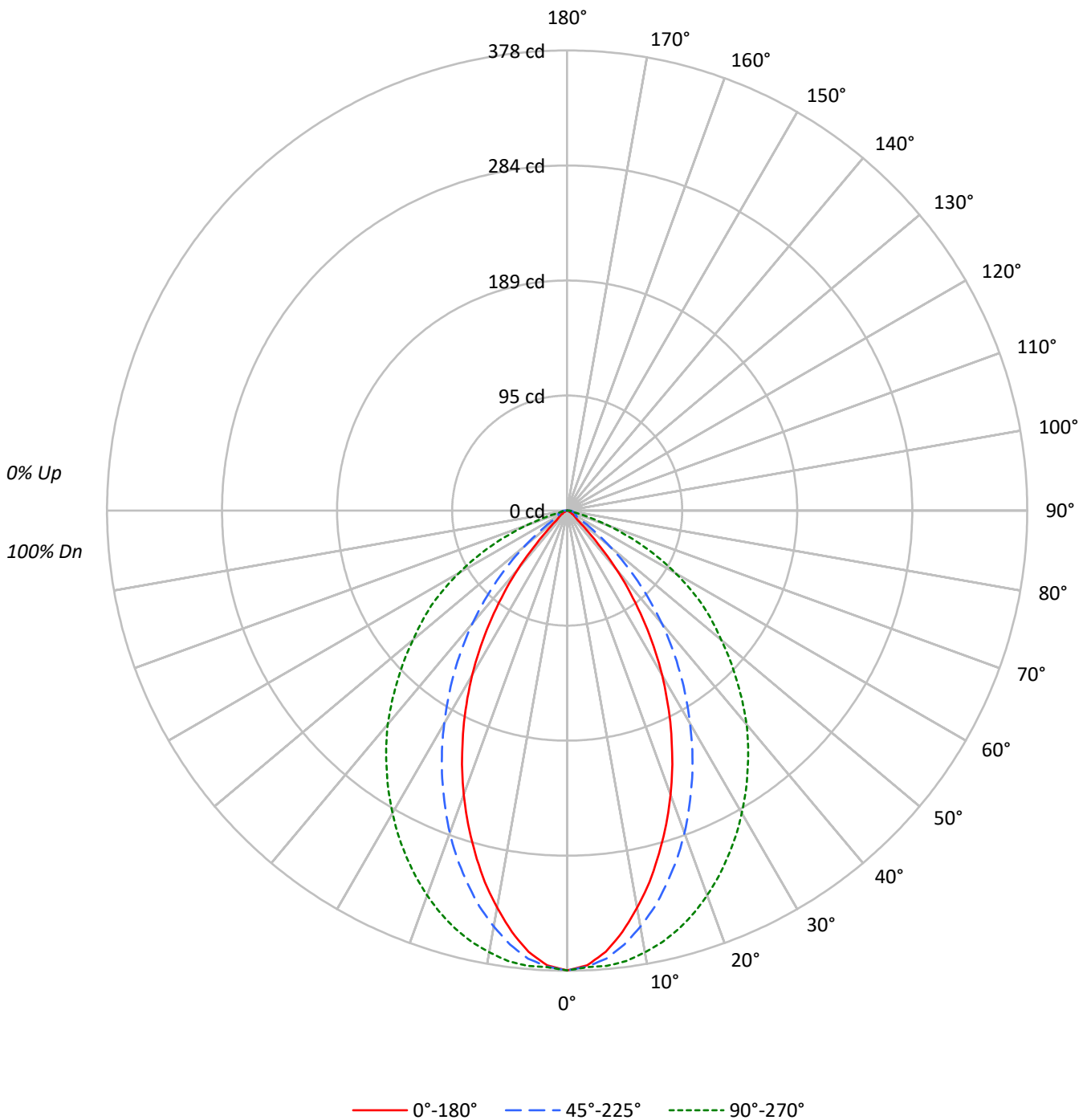
Lumens per Lamp: N/A
Luminaire Lumens: 485.9 lumens
Efficiency: N/A
Efficacy: 38.9 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 12.5
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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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	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°	2601	2601	2601
5°	2514	2553	2595
10°	2316	2426	2576
15°	2079	2258	2533
20°	1820	2066	2464
25°	1538	1845	2379
30°	1239	1605	2282
35°	911	1353	2174
40°	569	1091	2061
45°	213	797	1916
50°	100	498	1768
55°	72	206	1636
60°	51	109	1416
65°	31	129	1121
70°	28	149	713
75°	37	149	223
80°	56	186	167
85°	111	292	221

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1916 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.6	7.1
10°-20°	89.7	18.5
20°-30°	114.2	23.5
30°-40°	106.3	21.9
40°-50°	72.8	15.0
50°-60°	40.1	8.3
60°-70°	19.0	3.9
70°-80°	6.0	1.2
80°-90°	3.1	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°	238.5	49.1
0°-40°	344.9	71.0
0°-60°	457.8	94.2
0°-90°	485.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	485.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	378	378	378	378	378	
5°	364	368	369	372	375	34
15°	292	301	317	340	355	81
25°	202	215	243	282	313	92
35°	108	124	161	214	259	67
45°	22	37	82	145	197	21
55°	6	7	17	81	136	5
65°	2	2	8	30	69	2
75°	1	2	6	6	8	1
85°	1	3	4	3	3	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	377.7	377.7	377.7	377.7	377.7
2.5°	374.0	377.7	374.9	374.9	375.4
5°	363.8	368.4	369.4	372.2	375.4
7.5°	348.9	354.9	359.6	367.5	373.1
10°	331.2	338.7	347.0	360.1	368.4
12.5°	312.6	320.5	333.1	351.2	362.8
15°	291.7	301.0	316.8	340.5	355.4
17.5°	270.3	280.5	300.0	328.0	346.6
20°	248.4	259.1	281.9	313.1	336.3
22.5°	225.6	237.2	262.4	297.7	325.2
25°	202.4	214.9	242.8	281.9	313.1
27.5°	179.1	192.1	222.8	265.6	300.5
30°	155.8	169.3	201.9	248.9	287.0
32.5°	132.1	147.0	181.4	232.1	273.1
35°	108.4	123.7	161.0	214.0	258.6
37.5°	85.1	100.9	141.0	196.8	244.2
40°	63.3	79.1	121.4	179.6	229.3
42.5°	40.9	57.7	100.9	161.9	213.1
45°	21.9	36.7	81.9	145.1	196.8
47.5°	11.6	19.5	63.7	128.4	181.4
50°	9.3	10.7	46.5	111.6	165.1
52.5°	7.4	8.4	29.8	94.4	150.7
55°	6.0	7.0	17.2	80.9	136.3
57.5°	4.7	5.6	9.8	67.5	119.6
60°	3.7	4.2	7.9	54.0	102.8
62.5°	2.3	3.3	7.9	41.9	86.1
65°	1.9	2.3	7.9	29.8	68.8
67.5°	1.9	1.9	7.9	19.5	51.6
70°	1.4	1.4	7.4	12.6	35.4
72.5°	1.4	1.4	6.5	8.4	20.5
75°	1.4	2.3	5.6	6.0	8.4
77.5°	1.4	3.7	5.1	5.1	4.7
80°	1.4	3.7	4.7	4.2	4.2
82.5°	1.4	3.7	3.7	3.7	3.3
85°	1.4	3.3	3.7	3.3	2.8
87.5°	1.4	3.3	3.3	3.3	1.9
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	12.37	13.66	12.74	13.97	14.28
	3H	0.00	0.00	0.00	0.00	0.00	13.16	14.29	13.54	14.62	14.99
	4H	0.00	0.00	0.00	0.00	0.00	13.18	14.24	13.59	14.59	14.98
	6H	0.00	0.00	0.00	0.00	0.00	13.14	14.11	13.55	14.48	14.88
	8H	0.00	0.00	0.00	0.00	0.00	13.12	14.03	13.55	14.43	14.83
	12H	0.00	0.00	0.00	0.00	0.00	13.10	13.98	13.53	14.36	14.79
4H	2H	0.00	0.00	0.00	0.00	0.00	12.15	13.21	12.56	13.56	13.95
	3H	0.00	0.00	0.00	0.00	0.00	12.98	13.84	13.39	14.25	14.65
	4H	0.00	0.00	0.00	0.00	0.00	13.01	13.78	13.45	14.20	14.65
	6H	0.00	0.00	0.00	0.22	0.68	13.00	13.67	13.47	14.11	14.58
	8H	0.00	0.46	0.31	0.91	1.38	12.99	13.61	13.46	14.05	14.52
	12H	0.60	1.14	1.08	1.63	2.10	12.99	13.53	13.48	14.02	14.49
8H	4H	0.00	0.28	0.13	0.72	1.19	12.90	13.52	13.37	13.97	14.44
	6H	1.40	1.90	1.90	2.40	2.88	12.90	13.41	13.41	13.90	14.39
	8H	2.34	2.80	2.87	3.31	3.81	12.91	13.36	13.43	13.88	14.37
	12H	3.29	3.69	3.81	4.19	4.76	12.96	13.36	13.47	13.85	14.42
12H	4H	0.00	0.51	0.45	0.99	1.47	12.86	13.40	13.34	13.89	14.36
	6H	1.85	2.31	2.38	2.83	3.32	12.86	13.31	13.38	13.83	14.32
	8H	2.98	3.38	3.50	3.88	4.45	12.90	13.30	13.41	13.79	14.36