

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: P1061669

Luminaire Tested: S125RDRP-S375D950-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061669
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-S375D950-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, 90 CRI LEDS
Ballast/Driver: -

Summary

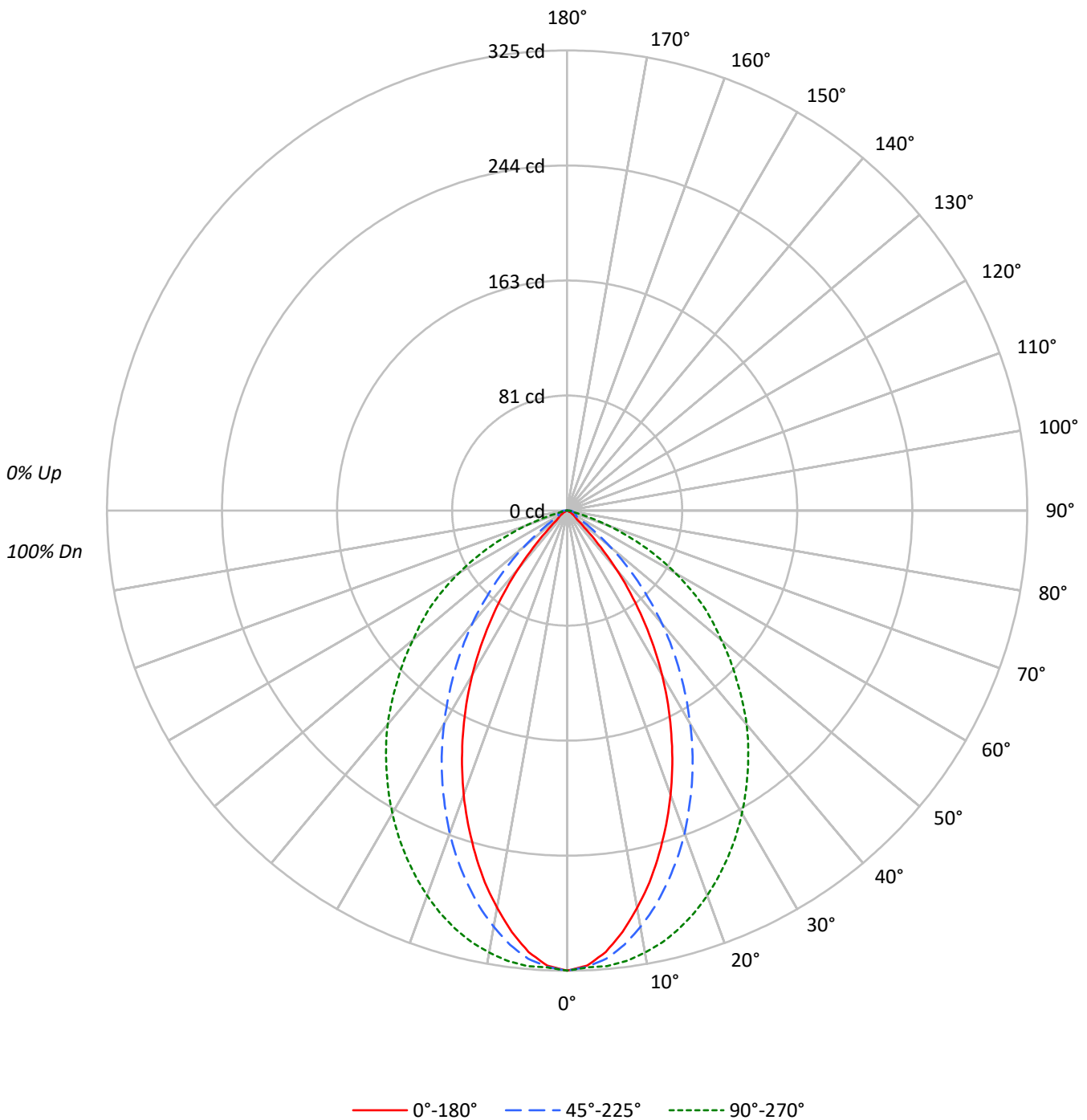
Lumens per Lamp: N/A
Luminaire Lumens: 417.9 lumens
Efficiency: N/A
Efficacy: 33.4 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 12.5
Input Voltage (V): 120
Input Current (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	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°	2237	2237	2237
5°	2163	2196	2232
10°	1992	2087	2216
15°	1788	1942	2179
20°	1566	1777	2120
25°	1323	1587	2046
30°	1066	1381	1963
35°	783	1164	1870
40°	489	938	1773
45°	183	685	1649
50°	86	428	1522
55°	62	178	1408
60°	44	94	1217
65°	26	111	964
70°	24	129	612
75°	32	128	192
80°	48	159	143
85°	95	253	190

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1649 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.8	7.1
10°-20°	77.1	18.5
20°-30°	98.3	23.5
30°-40°	91.5	21.9
40°-50°	62.7	15.0
50°-60°	34.5	8.3
60°-70°	16.3	3.9
70°-80°	5.1	1.2
80°-90°	2.6	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°	205.2	49.1
0°-40°	296.7	71.0
0°-60°	393.8	94.2
0°-90°	417.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	417.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	325	325	325	325	325	
5°	313	317	318	320	323	29
15°	251	259	272	293	306	70
25°	174	185	209	242	269	79
35°	93	106	138	184	222	58
45°	19	32	70	125	169	18
55°	5	6	15	70	117	5
65°	2	2	7	26	59	2
75°	1	2	5	5	7	1
85°	1	3	3	3	2	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	324.9	324.9	324.9	324.9	324.9
2.5°	321.7	324.9	322.5	322.5	322.9
5°	312.9	316.9	317.7	320.1	322.9
7.5°	300.1	305.3	309.3	316.1	320.9
10°	284.9	291.3	298.5	309.7	316.9
12.5°	268.9	275.7	286.5	302.1	312.1
15°	250.9	258.9	272.5	292.9	305.7
17.5°	232.5	241.3	258.1	282.1	298.1
20°	213.7	222.9	242.5	269.3	289.3
22.5°	194.1	204.1	225.7	256.1	279.7
25°	174.1	184.9	208.9	242.5	269.3
27.5°	154.1	165.3	191.7	228.5	258.5
30°	134.1	145.7	173.7	214.1	246.9
32.5°	113.6	126.5	156.1	199.7	234.9
35°	93.2	106.4	138.5	184.1	222.5
37.5°	73.2	86.8	121.3	169.3	210.1
40°	54.4	68.0	104.4	154.5	197.3
42.5°	35.2	49.6	86.8	139.3	183.3
45°	18.8	31.6	70.4	124.9	169.3
47.5°	10.0	16.8	54.8	110.4	156.1
50°	8.0	9.2	40.0	96.0	142.1
52.5°	6.4	7.2	25.6	81.2	129.7
55°	5.2	6.0	14.8	69.6	117.3
57.5°	4.0	4.8	8.4	58.0	102.8
60°	3.2	3.6	6.8	46.4	88.4
62.5°	2.0	2.8	6.8	36.0	74.0
65°	1.6	2.0	6.8	25.6	59.2
67.5°	1.6	1.6	6.8	16.8	44.4
70°	1.2	1.2	6.4	10.8	30.4
72.5°	1.2	1.2	5.6	7.2	17.6
75°	1.2	2.0	4.8	5.2	7.2
77.5°	1.2	3.2	4.4	4.4	4.0
80°	1.2	3.2	4.0	3.6	3.6
82.5°	1.2	3.2	3.2	3.2	2.8
85°	1.2	2.8	3.2	2.8	2.4
87.5°	1.2	2.8	2.8	2.8	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	0.00	0.00	0.00	0.00	0.00	11.84	13.13	12.21	13.44	13.75
	3H	0.00	0.00	0.00	0.00	0.00	12.63	13.76	13.01	14.09	14.46
	4H	0.00	0.00	0.00	0.00	0.00	12.65	13.71	13.06	14.06	14.45
	6H	0.00	0.00	0.00	0.00	0.00	12.61	13.58	13.02	13.95	14.35
	8H	0.00	0.00	0.00	0.00	0.00	12.59	13.51	13.02	13.90	14.30
	12H	0.00	0.00	0.00	0.00	0.00	12.57	13.45	13.00	13.83	14.26
4H	2H	0.00	0.00	0.00	0.00	0.00	11.62	12.68	12.03	13.03	13.42
	3H	0.00	0.00	0.00	0.00	0.00	12.45	13.31	12.86	13.72	14.12
	4H	0.00	0.00	0.00	0.00	0.00	12.49	13.26	12.92	13.68	14.12
	6H	0.00	0.00	0.00	0.00	0.17	12.47	13.14	12.94	13.58	14.05
	8H	0.00	0.00	0.00	0.40	0.87	12.46	13.08	12.93	13.52	14.00
	12H	0.07	0.62	0.56	1.10	1.58	12.46	13.00	12.95	13.49	13.96
8H	4H	0.00	0.00	0.00	0.20	0.67	12.37	12.99	12.84	13.44	13.91
	6H	0.88	1.38	1.38	1.88	2.36	12.37	12.88	12.88	13.38	13.86
	8H	1.83	2.28	2.35	2.80	3.29	12.38	12.83	12.90	13.35	13.84
	12H	2.76	3.16	3.28	3.66	4.23	12.42	12.83	12.94	13.32	13.89
12H	4H	0.00	0.00	0.00	0.46	0.94	12.33	12.88	12.82	13.36	13.83
	6H	1.33	1.79	1.86	2.30	2.80	12.33	12.78	12.85	13.30	13.79
	8H	2.47	2.87	2.98	3.36	3.94	12.37	12.77	12.88	13.26	13.84