

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: P1061675

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061675
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-85)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S375D950-X4F0-XX-UDD-WVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

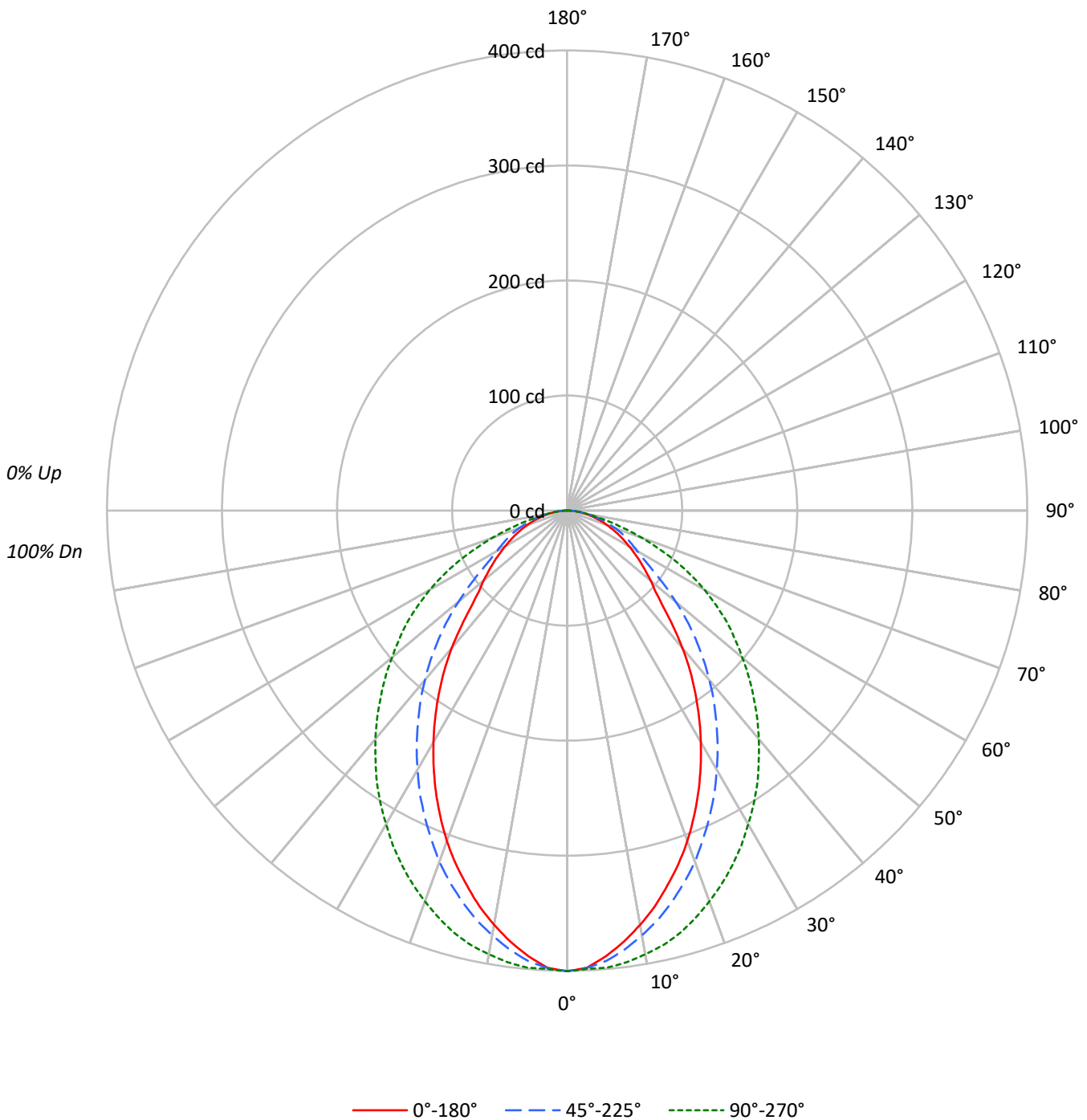
Lumens per Lamp: N/A
Luminaire Lumens: 750.6 lumens
Efficiency: N/A
Efficacy: 60.0 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	48	59	52	47	58	52	47	56	51	46	44
7	69	57	49	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38	36
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2757	2757	2757
5°	2687	2715	2756
10°	2556	2620	2738
15°	2404	2509	2709
20°	2239	2380	2649
25°	2051	2227	2583
30°	1848	2067	2503
35°	1634	1900	2424
40°	1402	1729	2330
45°	1145	1538	2232
50°	1015	1320	2129
55°	932	1095	2041
60°	859	969	1900
65°	802	932	1694
70°	749	886	1385
75°	692	830	1022
80°	650	777	745
85°	600	758	632

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2232 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.1	4.9
10°-20°	99.8	13.3
20°-30°	137.2	18.3
30°-40°	145.4	19.4
40°-50°	126.9	16.9
50°-60°	96.4	12.8
60°-70°	64.6	8.6
70°-80°	33.3	4.4
80°-90°	10.0	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°	274.0	36.5
0°-40°	419.4	55.9
0°-60°	642.7	85.6
0°-90°	750.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	750.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	400	400	400	400	400	
5°	389	393	393	396	399	36
15°	337	344	352	368	380	95
25°	270	278	293	318	340	124
35°	194	206	226	258	288	121
45°	118	129	158	196	229	93
55°	78	80	91	134	170	70
65°	49	50	57	76	104	49
75°	26	28	31	33	38	28
85°	8	10	10	9	8	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	400.4	400.4	400.4	400.4	400.4
2.5°	397.6	400.4	398.0	398.0	398.8
5°	388.8	392.8	392.8	395.6	398.8
7.5°	378.0	382.4	384.8	391.2	396.0
10°	365.6	370.4	374.8	384.4	391.6
12.5°	352.4	357.6	364.4	376.8	386.8
15°	337.2	343.6	352.0	367.6	380.0
17.5°	322.0	328.4	338.8	357.2	371.2
20°	305.6	312.4	324.8	344.8	361.6
22.5°	288.0	295.6	308.8	331.6	351.2
25°	270.0	278.4	293.2	317.6	340.0
27.5°	251.2	261.2	277.2	303.2	328.0
30°	232.4	242.4	260.0	288.4	314.8
32.5°	213.6	224.4	243.6	273.6	302.0
35°	194.4	205.6	226.0	258.0	288.4
37.5°	175.6	186.8	209.6	242.8	273.6
40°	156.0	167.6	192.4	227.2	259.2
42.5°	136.0	148.4	175.2	211.2	244.4
45°	117.6	129.2	158.0	195.6	229.2
47.5°	104.0	111.6	140.8	179.6	214.4
50°	94.8	98.8	123.2	164.0	198.8
52.5°	85.6	88.8	106.8	148.0	184.0
55°	77.6	80.0	91.2	134.0	170.0
57.5°	69.6	72.0	79.2	120.0	153.6
60°	62.4	64.4	70.4	105.2	138.0
62.5°	55.6	57.2	63.6	91.2	121.2
65°	49.2	50.4	57.2	76.4	104.0
67.5°	42.8	44.0	50.8	62.4	85.6
70°	37.2	37.6	44.0	50.8	68.8
72.5°	31.6	32.0	37.2	41.2	52.8
75°	26.0	27.6	31.2	33.2	38.4
77.5°	21.2	23.2	25.2	26.0	26.0
80°	16.4	18.8	19.6	19.6	18.8
82.5°	12.0	14.0	14.4	13.6	12.8
85°	7.6	9.6	9.6	8.8	8.0
87.5°	3.6	5.2	5.2	4.8	3.6
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	10.13	11.63	10.50	11.94	12.25	14.06	15.55	14.42	15.87	16.18
	3H	11.70	13.04	12.08	13.37	13.73	15.48	16.82	15.86	17.15	17.51
	4H	12.31	13.57	12.71	13.92	14.30	15.89	17.15	16.29	17.50	17.88
	6H	12.81	13.97	13.22	14.34	14.73	16.11	17.27	16.52	17.64	18.03
	8H	12.98	14.09	13.41	14.48	14.88	16.17	17.28	16.60	17.67	18.07
	12H	13.11	14.17	13.54	14.55	14.98	16.20	17.26	16.63	17.65	18.07
4H	2H	10.87	12.13	11.27	12.48	12.85	14.18	15.44	14.58	15.79	16.17
	3H	12.65	13.69	13.06	14.09	14.49	15.79	16.84	16.20	17.24	17.64
	4H	13.38	14.32	13.81	14.74	15.18	16.32	17.26	16.75	17.68	18.12
	6H	14.02	14.84	14.48	15.28	15.74	16.66	17.48	17.12	17.92	18.38
	8H	14.25	15.01	14.71	15.45	15.92	16.76	17.53	17.23	17.97	18.44
	12H	14.42	15.10	14.90	15.58	16.05	16.84	17.52	17.32	18.00	18.47
8H	4H	13.78	14.55	14.25	14.99	15.46	16.43	17.19	16.89	17.64	18.10
	6H	14.57	15.20	15.07	15.69	16.17	16.87	17.50	17.36	17.99	18.47
	8H	14.89	15.46	15.41	15.97	16.46	17.02	17.59	17.54	18.10	18.59
	12H	15.17	15.67	15.68	16.16	16.73	17.16	17.66	17.67	18.15	18.72
12H	4H	13.83	14.51	14.31	14.99	15.46	16.43	17.11	16.91	17.59	18.06
	6H	14.65	15.22	15.17	15.73	16.22	16.88	17.45	17.40	17.96	18.45
	8H	15.05	15.55	15.56	16.04	16.61	17.09	17.59	17.60	18.08	18.65