

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: P1061670

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061670
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-84)
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-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

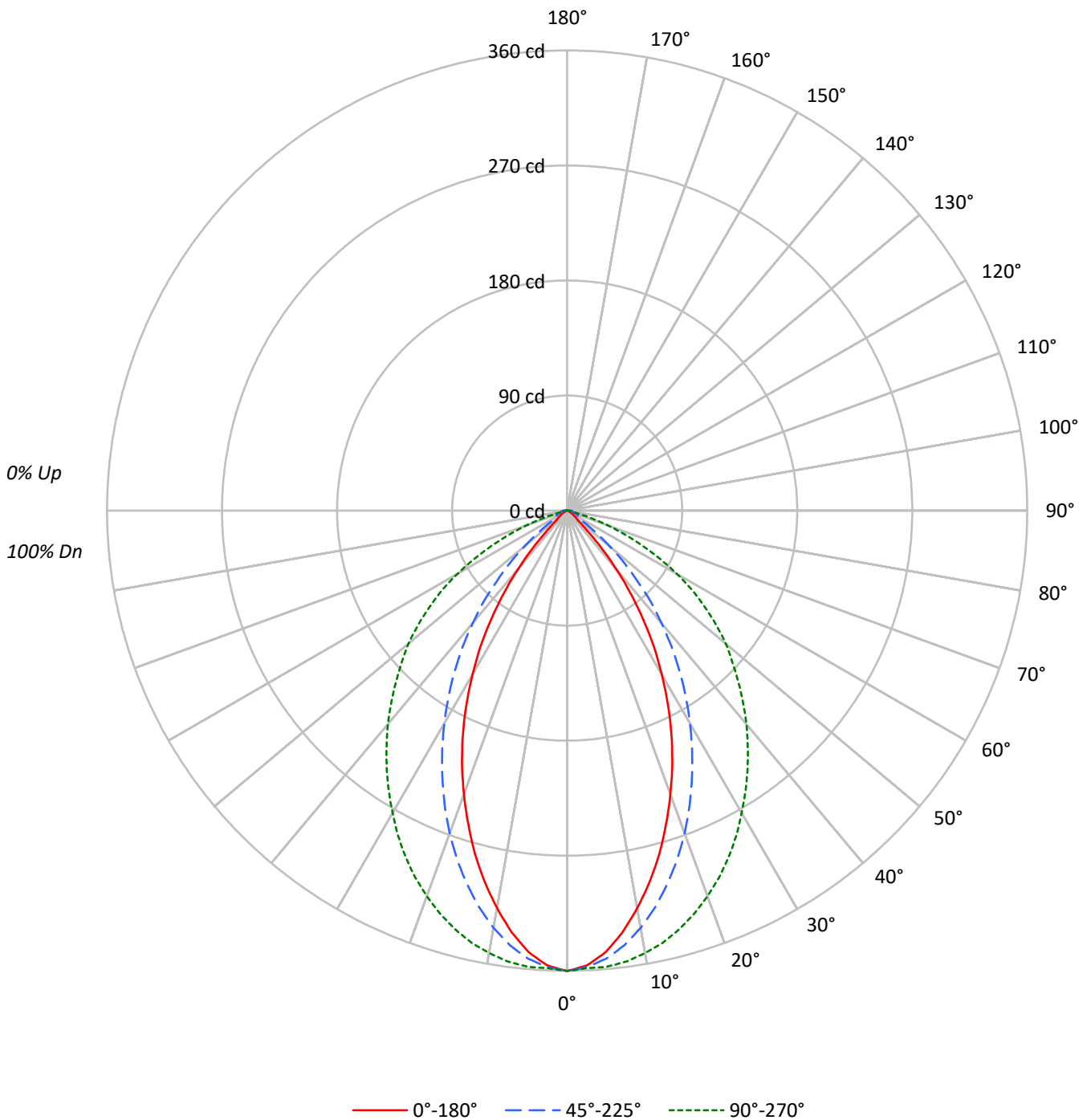
Lumens per Lamp: N/A
Luminaire Lumens: 466.0 lumens
Efficiency: N/A
Efficacy: 37.3 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80
3	98	89	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	67	74	70	67	65
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59
6	80	69	62	57	78	68	61	56	67	60	56	65	60	56	64	59	55	53
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45
9	67	55	48	44	65	55	48	44	54	48	43	53	47	43	52	47	43	41
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	44	40	38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2480	2480	2480
5°	2396	2431	2476
10°	2208	2317	2457
15°	1983	2157	2416
20°	1730	1968	2352
25°	1465	1754	2272
30°	1177	1527	2170
35°	872	1289	2069
40°	539	1029	1960
45°	210	752	1843
50°	99	471	1736
55°	72	202	1576
60°	50	143	1367
65°	33	150	1062
70°	32	137	668
75°	43	138	213
80°	63	159	143
85°	95	316	221

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1843 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.0	7.1
10°-20°	85.6	18.4
20°-30°	109.0	23.4
30°-40°	101.5	21.8
40°-50°	69.8	15.0
50°-60°	39.5	8.5
60°-70°	18.7	4.0
70°-80°	5.8	1.3
80°-90°	3.0	0.7
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°	227.6	48.8
0°-40°	329.1	70.6
0°-60°	438.5	94.1
0°-90°	466.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	466.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	360	360	360	360	360	
5°	347	351	352	355	358	32
15°	278	287	303	325	339	77
25°	193	205	231	270	299	88
35°	104	118	153	206	246	64
45°	22	34	77	140	189	20
55°	6	7	17	80	131	6
65°	2	2	9	29	65	2
75°	2	4	5	6	8	2
85°	1	3	4	4	3	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	360.2	360.2	360.2	360.2	360.2
2.5°	356.2	359.8	357.4	357.8	358.2
5°	346.6	351.4	351.8	355.0	358.2
7.5°	332.6	338.6	343.0	350.6	355.8
10°	315.8	323.0	331.4	343.8	351.4
12.5°	297.8	306.2	317.8	335.4	346.2
15°	278.2	287.4	302.6	325.4	339.0
17.5°	257.3	267.8	286.2	313.4	330.6
20°	236.1	247.3	268.6	299.8	321.0
22.5°	214.9	226.5	250.1	285.0	310.6
25°	192.9	205.3	230.9	269.8	299.0
27.5°	170.5	183.3	211.7	254.1	286.6
30°	148.1	161.7	192.1	238.1	273.0
32.5°	126.1	139.7	172.9	222.1	259.8
35°	103.7	118.1	153.3	205.7	246.1
37.5°	81.2	96.9	134.1	188.9	232.1
40°	60.0	74.8	114.5	172.5	218.1
42.5°	40.0	54.4	96.9	156.1	203.7
45°	21.6	34.4	77.2	139.7	189.3
47.5°	11.6	18.4	60.4	123.7	175.3
50°	9.2	10.4	44.0	108.9	162.1
52.5°	7.6	8.4	28.8	94.9	146.9
55°	6.0	6.8	16.8	80.4	131.3
57.5°	4.8	5.6	10.8	66.8	116.1
60°	3.6	4.4	10.4	53.6	99.3
62.5°	2.8	3.2	9.6	41.2	81.6
65°	2.0	2.4	9.2	28.8	65.2
67.5°	1.6	2.0	8.4	18.4	48.8
70°	1.6	1.6	6.8	12.0	33.2
72.5°	1.6	2.8	6.0	8.0	20.0
75°	1.6	3.6	5.2	5.6	8.0
77.5°	1.6	4.0	4.4	4.4	4.4
80°	1.6	3.6	4.0	4.0	3.6
82.5°	1.6	3.2	3.6	4.0	3.2
85°	1.2	3.2	4.0	3.6	2.8
87.5°	1.2	3.2	3.6	3.2	2.0
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	12.40	13.69	12.76	14.00	14.32
	3H	0.00	0.00	0.00	0.00	0.00	13.12	14.26	13.50	14.59	14.96
	4H	0.00	0.00	0.00	0.00	0.00	13.14	14.20	13.54	14.56	14.94
	6H	0.00	0.00	0.00	0.00	0.00	13.09	14.07	13.51	14.44	14.83
	8H	0.00	0.00	0.00	0.00	0.00	13.07	13.99	13.50	14.38	14.79
	12H	0.00	0.00	0.00	0.00	0.00	13.05	13.93	13.48	14.32	14.75
4H	2H	0.00	0.00	0.00	0.00	0.00	12.19	13.25	12.59	13.60	13.99
	3H	0.00	0.00	0.00	0.00	0.00	12.95	13.81	13.36	14.22	14.62
	4H	0.00	0.00	0.00	0.00	0.37	12.98	13.75	13.41	14.17	14.61
	6H	0.01	0.67	0.47	1.12	1.59	12.95	13.62	13.42	14.07	14.53
	8H	0.59	1.21	1.06	1.66	2.13	12.94	13.56	13.41	14.01	14.48
	12H	1.15	1.70	1.64	2.18	2.66	12.95	13.49	13.43	13.98	14.45
8H	4H	0.14	0.77	0.61	1.21	1.68	12.86	13.48	13.33	13.93	14.40
	6H	1.70	2.21	2.21	2.71	3.19	12.85	13.36	13.35	13.85	14.33
	8H	2.50	2.95	3.02	3.47	3.96	12.86	13.32	13.38	13.83	14.32
	12H	3.34	3.74	3.85	4.24	4.81	12.92	13.32	13.44	13.82	14.39
12H	4H	0.36	0.91	0.85	1.40	1.87	12.82	13.36	13.30	13.85	14.32
	6H	2.07	2.53	2.60	3.05	3.54	12.80	13.26	13.32	13.77	14.27
	8H	3.07	3.47	3.58	3.96	4.54	12.85	13.25	13.36	13.75	14.32