

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1060762

Luminaire Tested: S124RDR-H1195D935-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060762
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-38)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDR-H1195D935-X4F0-XX-UDD-SVL-B
Description: DEFINE 4 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

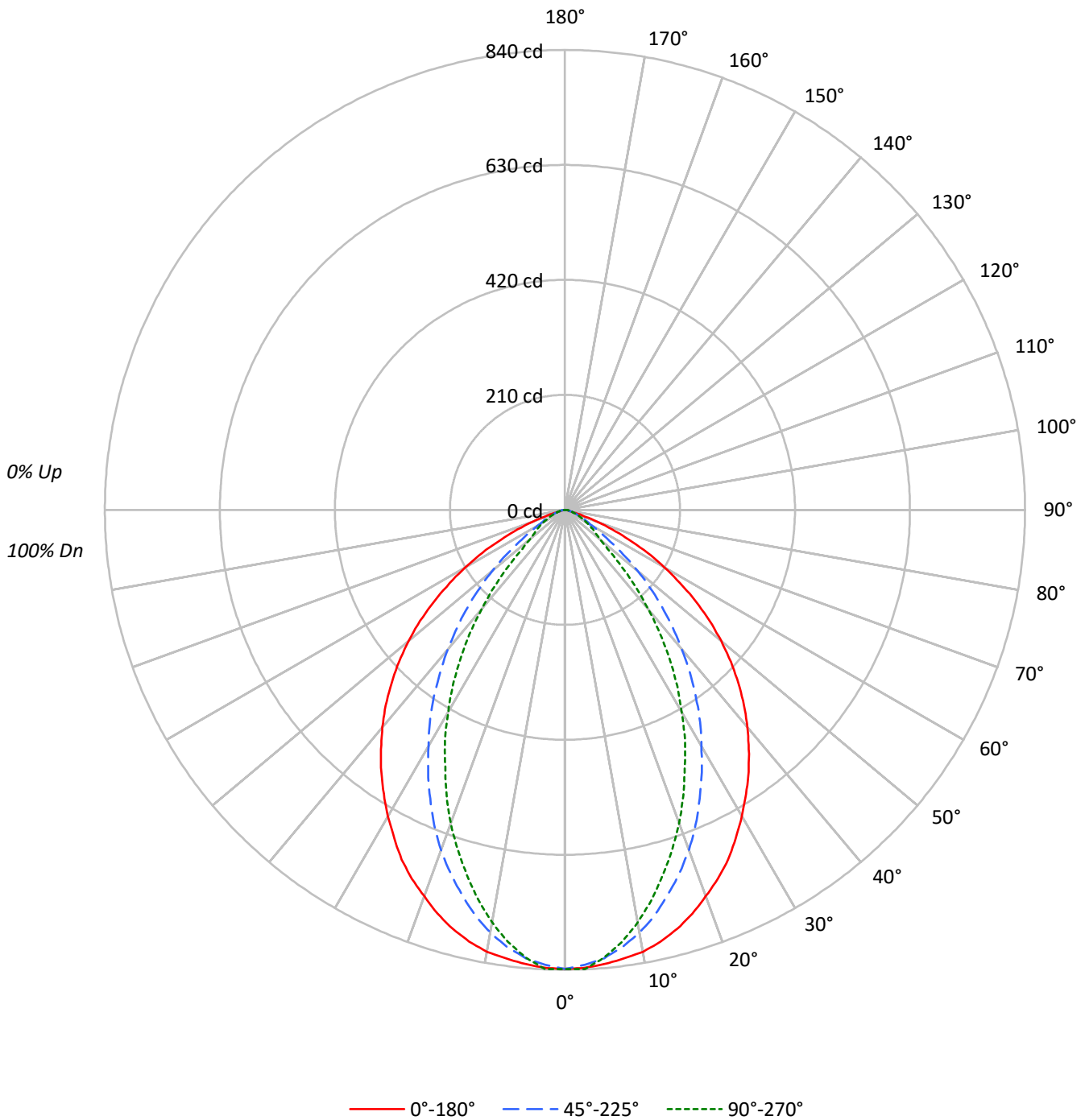
Lumens per Lamp: N/A
Luminaire Lumens: 1236.2 lumens
Efficiency: N/A
Efficacy: 33.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.87 / 1.02
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 36.5
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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100	
1	112	108	105	102	109	106	103	101	102	100	97	98	96	94	95	93	92	90			90	
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80			80	
3	97	89	82	77	95	87	81	76	84	79	75	82	78	74	79	76	73	71			71	
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63			63	
5	84	74	66	61	82	73	66	60	71	65	60	69	63	59	67	62	59	57			57	
6	79	68	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51			51	
7	74	62	55	50	72	62	54	49	60	54	49	59	53	49	58	52	48	47			47	
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	44	43			43	
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39			39	
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36			36	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7220	7220	7220
5°	7196	7105	7094
10°	7167	6856	6691
15°	7064	6485	6158
20°	6883	6060	5584
25°	6698	5532	4914
30°	6423	4955	4239
35°	6145	4383	3501
40°	5827	3730	2655
45°	5451	3049	1783
50°	4984	2310	1108
55°	4379	1525	940
60°	3620	935	773
65°	2622	721	626
70°	1428	536	476
75°	313	393	433
80°	233	293	352
85°	237	237	346

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5451 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.7	6.3
10°-20°	206.3	16.7
20°-30°	273.3	22.1
30°-40°	271.3	21.9
40°-50°	208.8	16.9
50°-60°	124.4	10.1
60°-70°	56.6	4.6
70°-80°	14.6	1.2
80°-90°	3.3	0.3
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°	557.3	45.1
0°-40°	828.6	67.0
0°-60°	1161.7	94.0
0°-90°	1236.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1236.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	838	838	838	838	838	
5°	832	834	822	822	821	79
15°	792	772	727	703	691	223
25°	705	654	582	534	517	324
35°	585	511	417	353	333	365
45°	448	360	250	175	146	345
55°	292	208	102	64	63	260
65°	129	77	35	31	31	129
75°	9	12	12	13	13	20
85°	2	2	2	4	4	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	838.4	838.4	838.4	838.4	838.4
2.5°	837.3	838.4	831.4	837.3	839.6
5°	832.5	833.7	821.9	821.9	820.7
7.5°	826.6	824.3	805.4	798.3	795.9
10°	819.6	811.3	784.1	770.0	765.2
12.5°	807.7	794.8	758.1	738.1	729.8
15°	792.4	772.3	727.4	702.6	690.8
17.5°	773.5	748.7	695.6	663.7	650.7
20°	751.1	718.0	661.3	621.2	609.4
22.5°	729.8	688.5	623.5	577.5	564.5
25°	705.0	654.2	582.2	533.8	517.2
27.5°	675.5	621.2	540.9	491.3	474.7
30°	646.0	585.7	498.3	446.4	426.3
32.5°	615.3	549.1	459.4	400.3	381.4
35°	584.6	511.3	416.9	353.1	333.0
37.5°	551.5	473.5	374.3	308.2	285.8
40°	518.4	436.9	331.8	264.5	236.2
42.5°	484.2	399.1	290.5	219.6	191.3
45°	447.6	360.2	250.4	174.8	146.4
47.5°	411.0	323.6	210.2	131.1	105.1
50°	372.0	284.6	172.4	95.7	82.7
52.5°	333.0	246.8	134.6	74.4	70.9
55°	291.7	207.8	101.6	63.8	62.6
57.5°	249.2	172.4	73.2	55.5	53.1
60°	210.2	139.3	54.3	47.2	44.9
62.5°	170.1	105.1	44.9	39.0	36.6
65°	128.7	76.8	35.4	30.7	30.7
67.5°	93.3	52.0	28.3	24.8	23.6
70°	56.7	31.9	21.3	20.1	18.9
72.5°	28.3	18.9	16.5	15.4	15.4
75°	9.4	11.8	11.8	13.0	13.0
77.5°	7.1	8.3	8.3	9.4	9.4
80°	4.7	5.9	5.9	7.1	7.1
82.5°	3.5	3.5	4.7	4.7	5.9
85°	2.4	2.4	2.4	3.5	3.5
87.5°	1.2	1.2	1.2	2.4	2.4
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	15.99	17.32	16.35	17.63	17.95	7.54	8.87	7.90	9.18	9.50
	3H	16.50	17.68	16.88	18.01	18.37	8.35	9.53	8.73	9.86	10.23
	4H	16.46	17.56	16.86	17.91	18.29	8.64	9.73	9.04	10.08	10.47
	6H	16.40	17.41	16.81	17.78	18.17	8.81	9.81	9.22	10.18	10.58
	8H	16.36	17.31	16.79	17.70	18.11	8.87	9.83	9.30	10.22	10.62
	12H	16.32	17.23	16.75	17.62	18.05	8.92	9.83	9.35	10.21	10.64
4H	2H	15.83	16.93	16.23	17.28	17.66	7.98	9.07	8.38	9.42	9.81
	3H	16.38	17.28	16.80	17.68	18.08	8.94	9.84	9.35	10.24	10.64
	4H	16.35	17.15	16.79	17.57	18.01	9.31	10.10	9.74	10.52	10.97
	6H	16.30	16.99	16.76	17.43	17.90	9.56	10.24	10.02	10.69	11.15
	8H	16.25	16.89	16.72	17.34	17.81	9.64	10.28	10.11	10.73	11.20
	12H	16.21	16.78	16.70	17.26	17.74	9.72	10.28	10.20	10.77	11.24
8H	4H	16.24	16.88	16.71	17.33	17.80	9.39	10.03	9.86	10.48	10.95
	6H	16.18	16.70	16.68	17.20	17.68	9.70	10.23	10.21	10.72	11.20
	8H	16.13	16.60	16.65	17.12	17.61	9.83	10.30	10.36	10.82	11.31
	12H	16.10	16.51	16.62	17.01	17.58	9.97	10.38	10.48	10.88	11.45
12H	4H	16.20	16.76	16.69	17.25	17.72	9.37	9.93	9.85	10.42	10.89
	6H	16.12	16.59	16.65	17.11	17.60	9.68	10.15	10.21	10.67	11.16
	8H	16.10	16.51	16.61	17.01	17.58	9.85	10.27	10.37	10.76	11.33