

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: P1060555

Luminaire Tested: S124RDRP-S795D835-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060555
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: S124RDRP-S795D835-X4F0-XX-UDD-SVL-B
Description: DEFINE 4 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

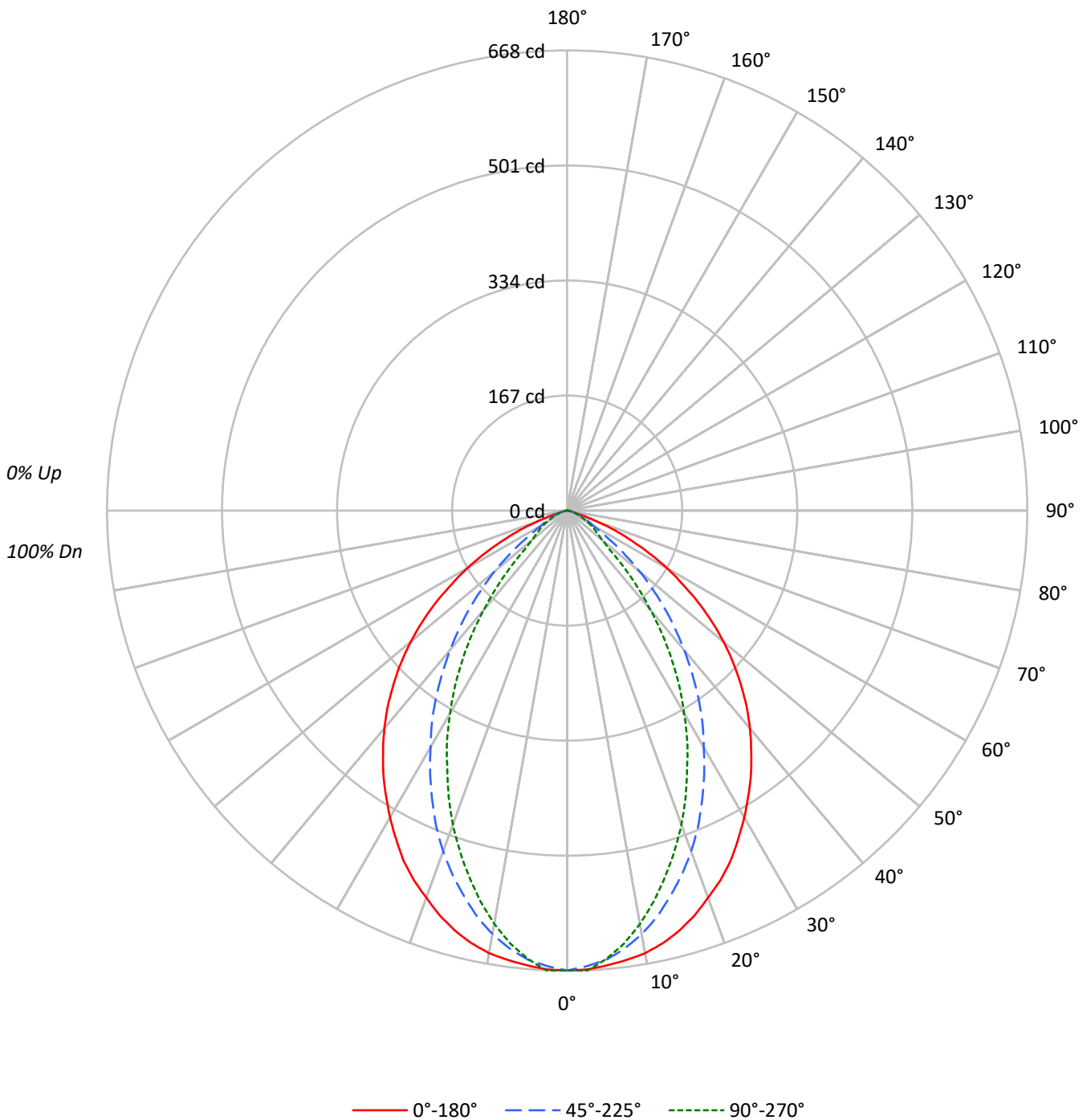
Lumens per Lamp: N/A
Luminaire Lumens: 984.1 lumens
Efficiency: N/A
Efficacy: 38.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.87 / 1.02
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
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	97	98	96	94	95	93	92	90
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80
3	97	89	82	77	95	87	81	76	84	79	75	82	78	74	79	76	73	71
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63
5	84	74	66	61	82	73	66	60	71	65	60	69	63	59	67	62	59	57
6	79	68	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51
7	74	62	55	50	72	62	54	49	60	54	49	59	53	49	58	52	48	47
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	44	43
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5748	5748	5748
5°	5729	5656	5648
10°	5705	5459	5327
15°	5624	5163	4903
20°	5479	4825	4445
25°	5333	4404	3913
30°	5114	3944	3375
35°	4892	3489	2787
40°	4639	2970	2113
45°	4339	2427	1420
50°	3967	1839	881
55°	3486	1215	748
60°	2881	744	615
65°	2089	575	497
70°	1135	425	378
75°	250	313	343
80°	188	233	278
85°	188	188	277

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4339 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.8	6.3
10°-20°	164.3	16.7
20°-30°	217.6	22.1
30°-40°	216.0	21.9
40°-50°	166.2	16.9
50°-60°	99.1	10.1
60°-70°	45.0	4.6
70°-80°	11.6	1.2
80°-90°	2.6	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°	443.7	45.1
0°-40°	659.6	67.0
0°-60°	924.9	94.0
0°-90°	984.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	984.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	668	668	668	668	668	
5°	663	664	654	654	653	63
15°	631	615	579	559	550	177
25°	561	521	464	425	412	258
35°	465	407	332	281	265	291
45°	356	287	199	139	117	274
55°	232	166	81	51	50	207
65°	102	61	28	24	24	103
75°	8	9	9	10	10	16
85°	2	2	2	3	3	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	667.5	667.5	667.5	667.5	667.5
2.5°	666.6	667.5	661.9	666.6	668.4
5°	662.8	663.7	654.3	654.3	653.4
7.5°	658.1	656.2	641.2	635.5	633.7
10°	652.5	645.9	624.3	613.0	609.2
12.5°	643.1	632.7	603.6	587.6	581.0
15°	630.8	614.9	579.1	559.4	550.0
17.5°	615.8	596.1	553.7	528.4	518.0
20°	597.9	571.6	526.5	494.5	485.1
22.5°	581.0	548.1	496.4	459.7	449.4
25°	561.3	520.8	463.5	424.9	411.8
27.5°	537.8	494.5	430.6	391.1	377.9
30°	514.3	466.3	396.7	355.4	339.4
32.5°	489.8	437.2	365.7	318.7	303.7
35°	465.4	407.1	331.9	281.1	265.1
37.5°	439.0	377.0	298.0	245.4	227.5
40°	412.7	347.9	264.2	210.6	188.0
42.5°	385.5	317.8	231.3	174.9	152.3
45°	356.3	286.7	199.3	139.1	116.6
47.5°	327.2	257.6	167.3	104.4	83.7
50°	296.1	226.6	137.3	76.2	65.8
52.5°	265.1	196.5	107.2	59.2	56.4
55°	232.2	165.5	80.9	50.8	49.8
57.5°	198.4	137.3	58.3	44.2	42.3
60°	167.3	110.9	43.2	37.6	35.7
62.5°	135.4	83.7	35.7	31.0	29.1
65°	102.5	61.1	28.2	24.4	24.4
67.5°	74.3	41.4	22.6	19.7	18.8
70°	45.1	25.4	16.9	16.0	15.0
72.5°	22.6	15.0	13.2	12.2	12.2
75°	7.5	9.4	9.4	10.3	10.3
77.5°	5.6	6.6	6.6	7.5	7.5
80°	3.8	4.7	4.7	5.6	5.6
82.5°	2.8	2.8	3.8	3.8	4.7
85°	1.9	1.9	1.9	2.8	2.8
87.5°	0.9	0.9	0.9	1.9	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	15.20	16.53	15.56	16.84	17.16	6.75	8.08	7.11	8.39	8.71
	3H	15.71	16.89	16.09	17.22	17.58	7.56	8.74	7.94	9.07	9.44
	4H	15.67	16.77	16.07	17.12	17.50	7.84	8.94	8.24	9.29	9.67
	6H	15.61	16.61	16.02	16.98	17.38	8.01	9.02	8.42	9.39	9.78
	8H	15.57	16.52	16.00	16.91	17.32	8.08	9.03	8.51	9.42	9.83
	12H	15.53	16.44	15.96	16.83	17.26	8.12	9.03	8.55	9.41	9.84
4H	2H	15.04	16.14	15.44	16.49	16.87	7.19	8.28	7.59	8.64	9.02
	3H	15.59	16.49	16.01	16.89	17.29	8.15	9.04	8.56	9.45	9.85
	4H	15.56	16.36	16.00	16.78	17.22	8.51	9.31	8.95	9.73	10.17
	6H	15.51	16.19	15.97	16.64	17.11	8.76	9.44	9.22	9.89	10.36
	8H	15.46	16.10	15.93	16.55	17.02	8.85	9.49	9.32	9.93	10.41
	12H	15.42	15.99	15.91	16.47	16.95	8.92	9.49	9.41	9.97	10.44
8H	4H	15.45	16.09	15.92	16.54	17.01	8.60	9.24	9.07	9.69	10.16
	6H	15.39	15.91	15.89	16.41	16.89	8.91	9.43	9.41	9.93	10.41
	8H	15.34	15.81	15.86	16.33	16.82	9.04	9.51	9.56	10.02	10.52
	12H	15.31	15.72	15.83	16.22	16.79	9.17	9.59	9.69	10.08	10.66
12H	4H	15.41	15.97	15.89	16.46	16.93	8.57	9.14	9.06	9.62	10.09
	6H	15.33	15.80	15.86	16.32	16.81	8.89	9.36	9.41	9.87	10.36
	8H	15.31	15.72	15.82	16.22	16.79	9.06	9.47	9.57	9.97	10.54