

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: P1060556

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060556
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-77)
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-S
Description: DEFINE 4 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

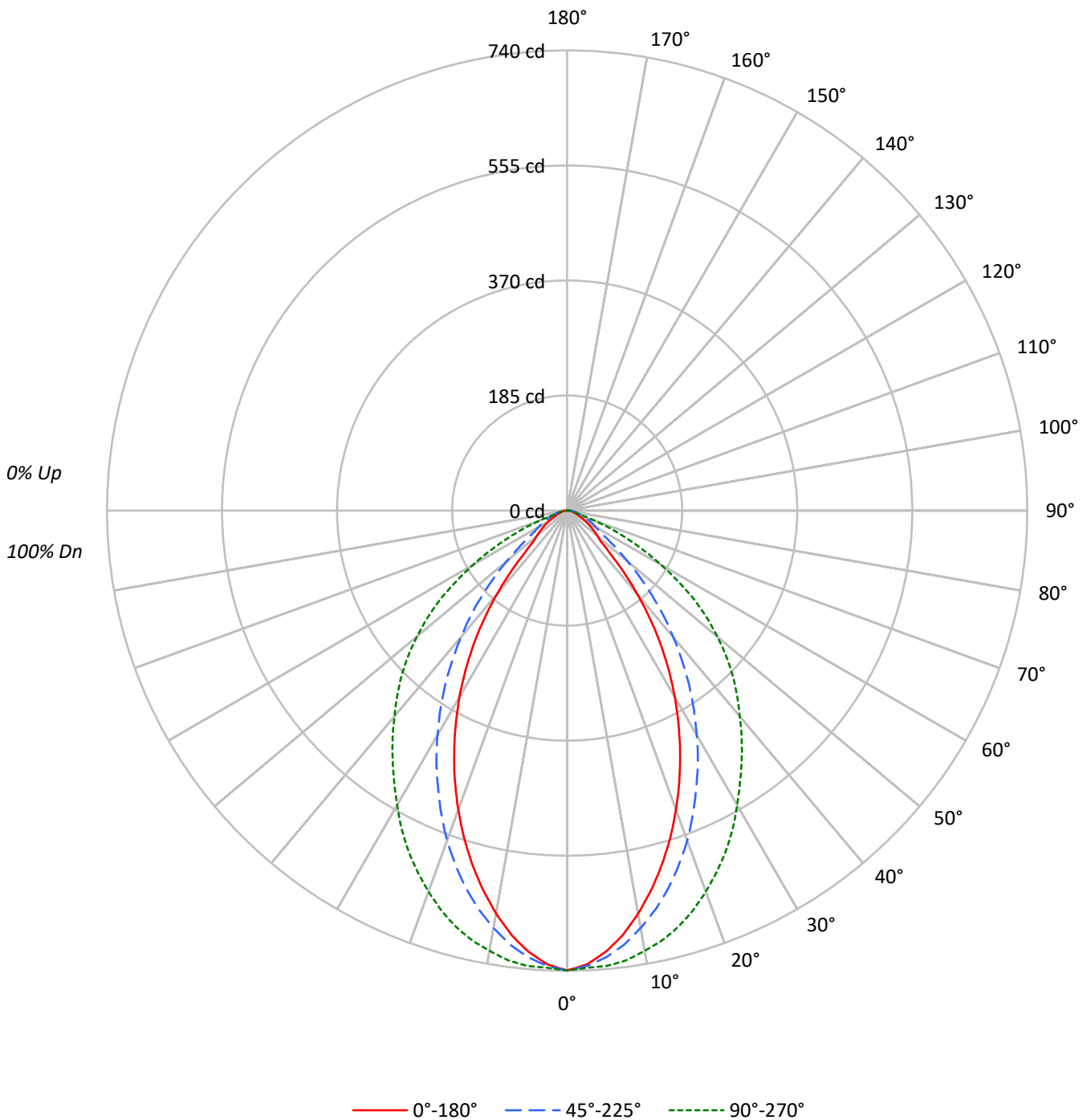
Lumens per Lamp: N/A
Luminaire Lumens: 1040.0 lumens
Efficiency: N/A
Efficacy: 40.3 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70
4	90	80	73	68	88	79	72	67	77	71	67	75	70	66	73	68	65	63
5	84	73	66	61	82	72	65	60	70	64	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	49	47
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	45	43
9	65	54	46	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6369	6369	6369
5°	6157	6231	6352
10°	5752	5957	6286
15°	5252	5604	6174
20°	4691	5174	5976
25°	4086	4667	5740
30°	3443	4145	5436
35°	2750	3591	5144
40°	1978	2983	4855
45°	1192	2349	4595
50°	857	1701	4223
55°	721	1144	3744
60°	584	908	3014
65°	460	825	2166
70°	403	687	1161
75°	376	625	562
80°	372	655	516
85°	553	929	652

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4595 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.9	6.5
10°-20°	177.9	17.1
20°-30°	230.8	22.2
30°-40°	221.9	21.3
40°-50°	164.6	15.8
50°-60°	100.8	9.7
60°-70°	49.0	4.7
70°-80°	18.7	1.8
80°-90°	8.4	0.8
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°	476.6	45.8
0°-40°	698.5	67.2
0°-60°	964.0	92.7
0°-90°	1040.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1040.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	740	740	740	740	740	
5°	712	723	721	727	735	66
15°	589	606	629	666	693	164
25°	430	452	491	554	604	197
35°	262	285	342	422	489	162
45°	98	122	193	294	377	81
55°	48	50	76	172	249	43
65°	23	24	40	64	106	23
75°	11	18	19	17	17	12
85°	6	9	9	8	7	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	739.6	739.6	739.6	739.6	739.6
2.5°	730.2	738.7	733.0	734.9	735.9
5°	712.3	722.7	720.8	727.4	734.9
7.5°	687.9	700.1	703.9	717.0	729.3
10°	657.8	672.8	681.3	702.9	718.9
12.5°	624.8	640.8	656.8	686.0	707.6
15°	589.1	606.0	628.6	666.2	692.6
17.5°	551.4	570.2	597.5	642.7	673.7
20°	511.9	531.7	564.6	614.5	652.1
22.5°	471.4	492.1	528.8	584.4	628.6
25°	430.0	451.7	491.2	554.2	604.1
27.5°	387.7	410.3	455.4	522.2	576.8
30°	346.3	367.9	416.9	489.3	546.7
32.5°	303.9	326.5	379.2	455.4	517.5
35°	261.6	285.1	341.6	422.5	489.3
37.5°	218.3	243.7	303.0	390.5	461.1
40°	176.0	200.4	265.4	357.6	431.9
42.5°	134.6	160.9	229.6	324.6	404.6
45°	97.9	122.3	192.9	294.5	377.3
47.5°	73.4	88.5	159.0	266.3	347.2
50°	64.0	66.8	127.0	235.2	315.2
52.5°	55.5	57.4	98.8	201.4	283.2
55°	48.0	49.9	76.2	172.2	249.4
57.5°	40.5	42.3	61.2	144.0	210.8
60°	33.9	35.8	52.7	114.8	175.0
62.5°	28.2	29.2	47.0	87.5	140.2
65°	22.6	24.5	40.5	64.0	106.3
67.5°	18.8	20.7	32.9	44.2	74.3
70°	16.0	20.7	27.3	31.1	46.1
72.5°	13.2	18.8	22.6	21.6	21.6
75°	11.3	17.9	18.8	16.9	16.9
77.5°	9.4	16.0	15.1	14.1	13.2
80°	7.5	13.2	13.2	11.3	10.4
82.5°	6.6	10.4	10.4	10.4	8.5
85°	5.6	9.4	9.4	8.5	6.6
87.5°	3.8	7.5	8.5	7.5	4.7
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	6.24	7.58	6.61	7.89	8.21	15.35	16.68	15.71	17.00	17.31
	3H	7.29	8.47	7.67	8.80	9.17	15.85	17.03	16.23	17.36	17.73
	4H	7.80	8.91	8.21	9.26	9.64	15.86	16.97	16.26	17.32	17.70
	6H	8.25	9.27	8.67	9.64	10.03	15.86	16.88	16.27	17.25	17.64
	8H	8.44	9.41	8.87	9.80	10.20	15.86	16.82	16.29	17.21	17.62
	12H	8.66	9.58	9.09	9.96	10.39	15.86	16.78	16.29	17.16	17.59
4H	2H	7.34	8.45	7.74	8.80	9.18	15.24	16.34	15.64	16.69	17.08
	3H	8.61	9.52	9.02	9.92	10.32	15.81	16.72	16.23	17.12	17.53
	4H	9.32	10.13	9.75	10.54	10.99	15.86	16.67	16.29	17.09	17.53
	6H	9.95	10.65	10.41	11.09	11.56	15.91	16.61	16.37	17.06	17.52
	8H	10.19	10.85	10.66	11.29	11.76	15.93	16.58	16.40	17.03	17.50
	12H	10.47	11.05	10.95	11.53	12.00	15.96	16.54	16.45	17.02	17.50
8H	4H	9.74	10.40	10.21	10.84	11.31	15.81	16.46	16.28	16.91	17.38
	6H	10.62	11.16	11.12	11.65	12.13	15.90	16.44	16.40	16.93	17.42
	8H	11.03	11.51	11.55	12.03	12.52	15.96	16.45	16.49	16.96	17.45
	12H	11.51	11.93	12.02	12.43	13.00	16.07	16.49	16.58	16.99	17.56
12H	4H	9.79	10.37	10.27	10.85	11.32	15.78	16.36	16.27	16.84	17.32
	6H	10.73	11.22	11.26	11.73	12.22	15.88	16.36	16.40	16.88	17.37
	8H	11.25	11.68	11.77	12.18	12.75	15.99	16.41	16.50	16.91	17.48