

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: P1060565

Luminaire Tested: S124RDRP-S795D840-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060565
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-S795D840-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: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

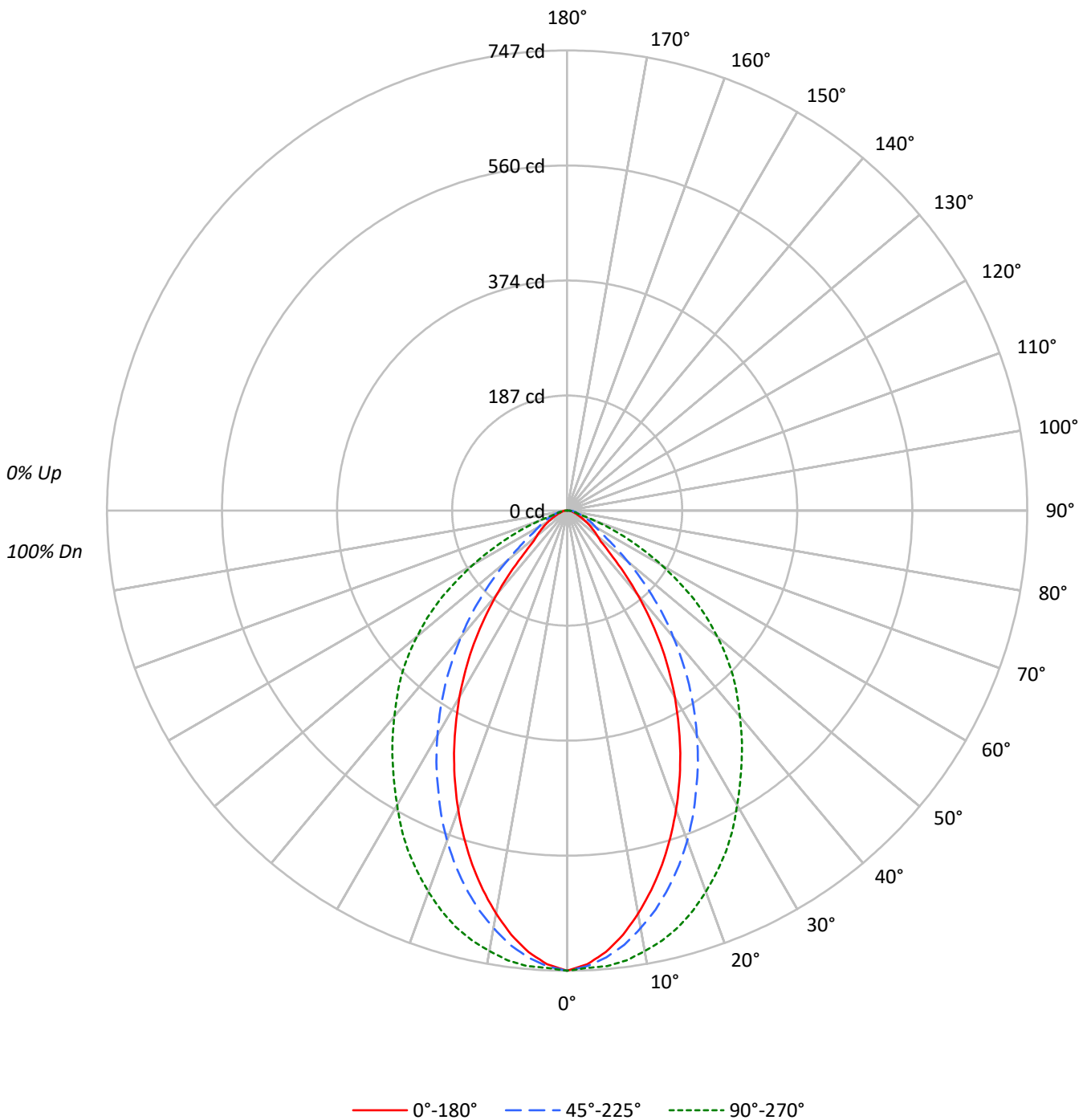
Lumens per Lamp: N/A
Luminaire Lumens: 1050.3 lumens
Efficiency: N/A
Efficacy: 40.7 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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°	6432	6432	6432
5°	6219	6292	6416
10°	5808	6016	6348
15°	5303	5659	6235
20°	4737	5225	6034
25°	4126	4713	5797
30°	3477	4186	5490
35°	2777	3626	5194
40°	1998	3013	4903
45°	1203	2372	4641
50°	865	1719	4264
55°	728	1156	3780
60°	589	916	3045
65°	465	833	2188
70°	408	695	1173
75°	379	632	569
80°	377	660	521
85°	563	939	662

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4641 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.6	6.5
10°-20°	179.7	17.1
20°-30°	233.1	22.2
30°-40°	224.1	21.3
40°-50°	166.2	15.8
50°-60°	101.9	9.7
60°-70°	49.5	4.7
70°-80°	18.9	1.8
80°-90°	8.5	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°	481.3	45.8
0°-40°	705.4	67.2
0°-60°	973.5	92.7
0°-90°	1050.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1050.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	747	747	747	747	747	
5°	719	730	728	735	742	67
15°	595	612	635	673	699	166
25°	434	456	496	560	610	199
35°	264	288	345	427	494	164
45°	99	124	195	297	381	82
55°	48	50	77	174	252	43
65°	23	25	41	65	107	24
75°	11	18	19	17	17	12
85°	6	10	10	9	7	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	746.9	746.9	746.9	746.9	746.9
2.5°	737.4	746.0	740.3	742.2	743.1
5°	719.4	729.8	727.9	734.6	742.2
7.5°	694.6	707.0	710.8	724.1	736.5
10°	664.2	679.4	688.0	709.9	726.0
12.5°	631.0	647.1	663.3	692.7	714.6
15°	594.9	612.0	634.8	672.8	699.4
17.5°	556.9	575.9	603.4	649.0	680.4
20°	516.9	536.9	570.2	620.5	658.5
22.5°	476.1	497.0	534.1	590.1	634.8
25°	434.3	456.1	496.0	559.7	610.1
27.5°	391.5	414.3	459.9	527.4	582.5
30°	349.7	371.6	421.0	494.1	552.1
32.5°	306.9	329.7	383.0	459.9	522.6
35°	264.2	287.9	344.9	426.7	494.1
37.5°	220.5	246.1	306.0	394.4	465.6
40°	177.7	202.4	268.0	361.1	436.2
42.5°	135.9	162.5	231.9	327.8	408.6
45°	98.8	123.5	194.8	297.4	381.1
47.5°	74.1	89.3	160.6	268.9	350.6
50°	64.6	67.5	128.3	237.6	318.3
52.5°	56.1	58.0	99.8	203.4	286.0
55°	48.5	50.4	77.0	173.9	251.8
57.5°	40.9	42.8	61.8	145.4	212.9
60°	34.2	36.1	53.2	115.9	176.8
62.5°	28.5	29.5	47.5	88.4	141.6
65°	22.8	24.7	40.9	64.6	107.4
67.5°	19.0	20.9	33.3	44.7	75.1
70°	16.2	20.9	27.6	31.4	46.6
72.5°	13.3	19.0	22.8	21.9	21.9
75°	11.4	18.1	19.0	17.1	17.1
77.5°	9.5	16.2	15.2	14.3	13.3
80°	7.6	13.3	13.3	11.4	10.5
82.5°	6.7	10.5	10.5	10.5	8.6
85°	5.7	9.5	9.5	8.6	6.7
87.5°	3.8	7.6	8.6	7.6	4.8
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	6.29	7.62	6.65	7.94	8.25	15.38	16.72	15.74	17.03	17.35
	3H	7.33	8.52	7.71	8.85	9.21	15.88	17.07	16.26	17.40	17.76
	4H	7.84	8.95	8.25	9.30	9.68	15.90	17.00	16.30	17.35	17.74
	6H	8.29	9.31	8.71	9.68	10.07	15.89	16.91	16.31	17.28	17.68
	8H	8.49	9.45	8.92	9.84	10.25	15.89	16.86	16.32	17.25	17.65
	12H	8.70	9.62	9.13	10.00	10.43	15.89	16.81	16.32	17.20	17.63
4H	2H	7.38	8.49	7.78	8.84	9.22	15.27	16.38	15.67	16.73	17.11
	3H	8.65	9.55	9.06	9.96	10.36	15.85	16.75	16.26	17.16	17.56
	4H	9.36	10.17	9.79	10.58	11.03	15.89	16.70	16.33	17.12	17.57
	6H	9.99	10.69	10.45	11.13	11.60	15.95	16.65	16.41	17.09	17.56
	8H	10.23	10.89	10.70	11.33	11.80	15.97	16.62	16.43	17.07	17.54
	12H	10.51	11.09	11.00	11.57	12.04	16.00	16.58	16.49	17.06	17.53
8H	4H	9.78	10.44	10.25	10.88	11.35	15.84	16.50	16.31	16.94	17.41
	6H	10.66	11.19	11.16	11.69	12.17	15.94	16.47	16.44	16.97	17.45
	8H	11.07	11.55	11.59	12.06	12.56	16.00	16.48	16.52	17.00	17.49
	12H	11.55	11.97	12.06	12.47	13.04	16.10	16.53	16.62	17.02	17.59
12H	4H	9.83	10.40	10.31	10.89	11.36	15.82	16.39	16.30	16.88	17.35
	6H	10.77	11.25	11.29	11.77	12.26	15.92	16.40	16.44	16.91	17.40
	8H	11.29	11.72	11.81	12.21	12.78	16.02	16.45	16.54	16.94	17.51