

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: P1060310

Luminaire Tested: S124RDRP-S1195D835-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060310
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-78)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDRP-S1195D835-X4F0-XX-UDD-BVL-S
Description: DEFINE 4 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

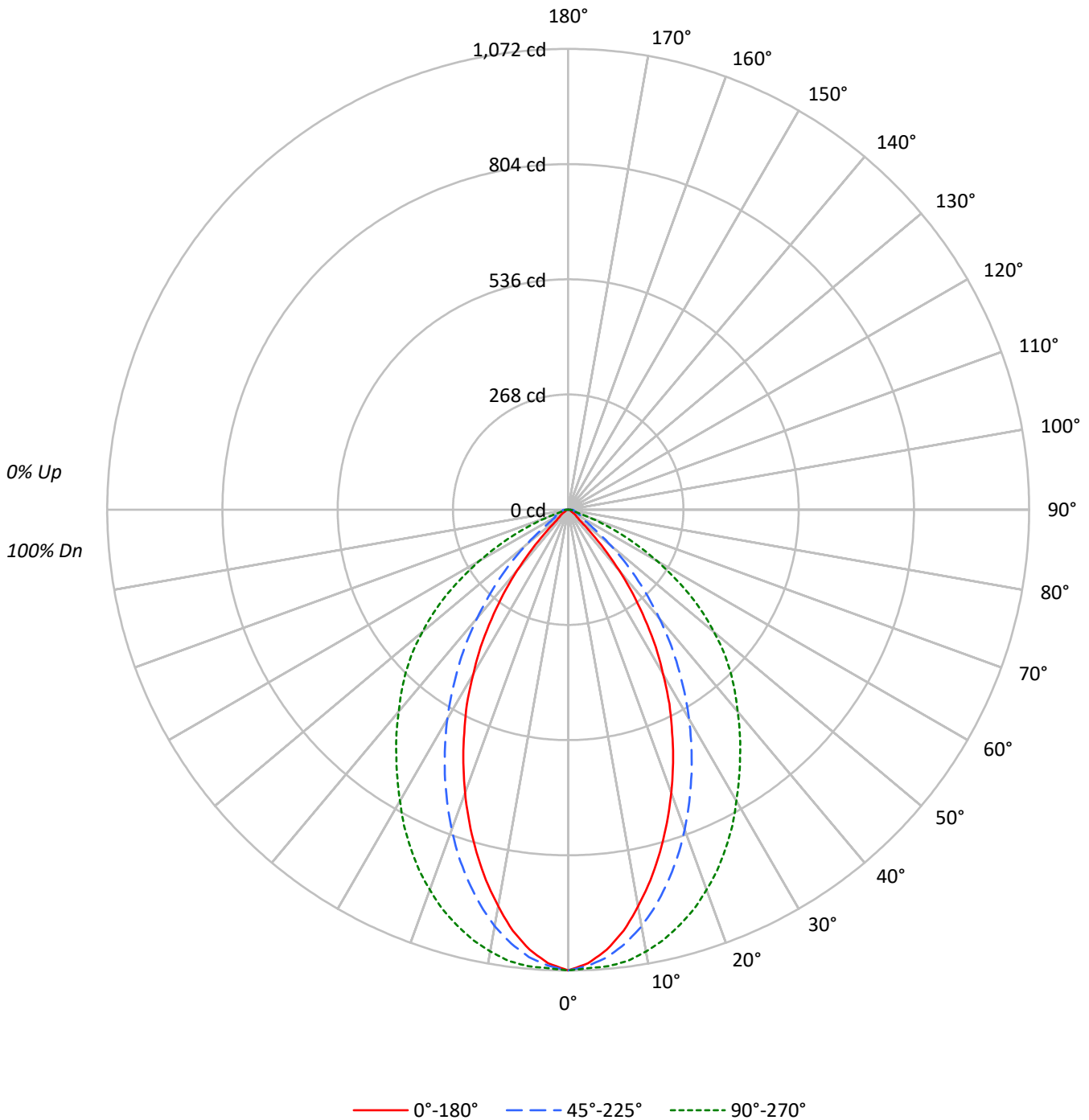
Lumens per Lamp: N/A
Luminaire Lumens: 1345.1 lumens
Efficiency: N/A
Efficacy: 32.2 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.11 / 0.97
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
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	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	98	98	96	95	95	93	92	90					90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73					73			
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65					65			
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59					59			
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54					54			
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	50					50			
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46					46			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42					42			
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39					39			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9229	9229	9229
5°	8883	9030	9215
10°	8191	8601	9123
15°	7352	7985	8921
20°	6426	7259	8624
25°	5435	6447	8241
30°	4389	5589	7777
35°	3268	4671	7327
40°	2074	3702	6893
45°	829	2714	6499
50°	362	1731	5933
55°	278	895	5178
60°	196	611	4108
65°	145	607	2806
70°	144	536	1287
75°	190	566	519
80°	283	635	565
85°	563	1126	840

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6499 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.1	7.3
10°-20°	253.0	18.8
20°-30°	319.6	23.8
30°-40°	293.5	21.8
40°-50°	200.1	14.9
50°-60°	108.5	8.1
60°-70°	46.1	3.4
70°-80°	15.9	1.2
80°-90°	10.1	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°	670.7	49.9
0°-40°	964.2	71.7
0°-60°	1272.9	94.6
0°-90°	1345.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1345.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1072	1072	1072	1072	1072	
5°	1028	1043	1045	1053	1066	95
15°	825	852	896	960	1001	230
25°	572	609	678	784	867	262
35°	311	352	444	583	697	193
45°	68	109	223	395	534	63
55°	18	20	60	217	345	17
65°	7	8	30	68	138	7
75°	6	16	17	16	16	6
85°	6	11	11	11	8	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1071.7	1071.7	1071.7	1071.7	1071.7
2.5°	1056.1	1068.8	1061.8	1064.6	1067.4
5°	1027.7	1043.3	1044.7	1053.2	1066.0
7.5°	987.9	1006.4	1017.7	1039.0	1058.9
10°	936.8	959.5	983.7	1017.7	1043.3
12.5°	882.9	907.0	942.5	990.8	1024.8
15°	824.7	851.7	895.7	959.5	1000.7
17.5°	763.7	793.5	846.0	921.2	973.7
20°	701.2	733.9	792.1	877.2	941.1
22.5°	637.3	671.4	735.3	831.8	907.0
25°	572.0	608.9	678.5	783.5	867.3
27.5°	509.6	543.7	620.3	735.3	827.5
30°	441.4	479.8	562.1	685.6	782.1
32.5°	379.0	415.9	502.5	634.5	739.5
35°	310.9	352.0	444.3	583.4	697.0
37.5°	247.0	286.7	387.5	535.1	655.8
40°	184.5	225.7	329.3	486.9	613.2
42.5°	123.5	167.5	274.0	437.2	573.5
45°	68.1	109.3	222.9	394.6	533.7
47.5°	35.5	59.6	174.6	352.0	491.1
50°	27.0	32.6	129.2	305.2	442.9
52.5°	22.7	24.1	88.0	258.3	394.6
55°	18.5	19.9	59.6	217.2	344.9
57.5°	14.2	15.6	42.6	177.4	289.6
60°	11.4	12.8	35.5	136.3	238.5
62.5°	8.5	9.9	34.1	100.8	187.4
65°	7.1	8.5	29.8	68.1	137.7
67.5°	5.7	8.5	25.6	44.0	92.3
70°	5.7	11.4	21.3	28.4	51.1
72.5°	5.7	12.8	18.5	18.5	18.5
75°	5.7	15.6	17.0	15.6	15.6
77.5°	5.7	14.2	14.2	14.2	14.2
80°	5.7	12.8	12.8	12.8	11.4
82.5°	5.7	11.4	12.8	12.8	9.9
85°	5.7	11.4	11.4	11.4	8.5
87.5°	4.3	11.4	11.4	11.4	5.7
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	0.00	0.00	0.00	0.01	0.32	16.16	17.44	16.53	17.75	18.07
	3H	0.00	0.81	0.06	1.14	1.50	16.52	17.65	16.90	17.98	18.34
	4H	1.07	2.12	1.47	2.47	2.85	16.48	17.53	16.89	17.88	18.27
	6H	2.44	3.40	2.85	3.77	4.17	16.46	17.42	16.88	17.79	18.19
	8H	3.12	4.03	3.55	4.42	4.83	16.45	17.36	16.88	17.75	18.16
	12H	3.93	4.80	4.36	5.18	5.61	16.45	17.32	16.88	17.70	18.13
4H	2H	1.86	2.91	2.26	3.26	3.64	15.97	17.01	16.37	17.37	17.75
	3H	3.29	4.14	3.70	4.55	4.95	16.36	17.22	16.77	17.62	18.02
	4H	4.74	5.50	5.17	5.92	6.36	16.34	17.10	16.78	17.52	17.97
	6H	5.98	6.64	6.45	7.09	7.56	16.36	17.02	16.82	17.46	17.93
	8H	6.56	7.17	7.03	7.62	8.09	16.37	16.98	16.84	17.43	17.90
	12H	7.23	7.78	7.72	8.26	8.74	16.41	16.95	16.89	17.43	17.91
8H	4H	5.81	6.42	6.28	6.87	7.34	16.24	16.86	16.71	17.30	17.77
	6H	7.43	7.93	7.93	8.43	8.91	16.29	16.79	16.79	17.29	17.77
	8H	8.26	8.71	8.79	9.23	9.72	16.35	16.80	16.87	17.32	17.81
	12H	9.23	9.63	9.75	10.13	10.70	16.47	16.86	16.98	17.36	17.93
12H	4H	6.00	6.54	6.49	7.03	7.50	16.20	16.74	16.69	17.23	17.70
	6H	7.77	8.22	8.30	8.74	9.23	16.26	16.71	16.78	17.23	17.72
	8H	8.80	9.20	9.31	9.69	10.26	16.36	16.76	16.88	17.26	17.83