

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: P1060316

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060316
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-76)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDRP-S1195D835-X4F0-XX-UDD-WVL-S
Description: DEFINE 4 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

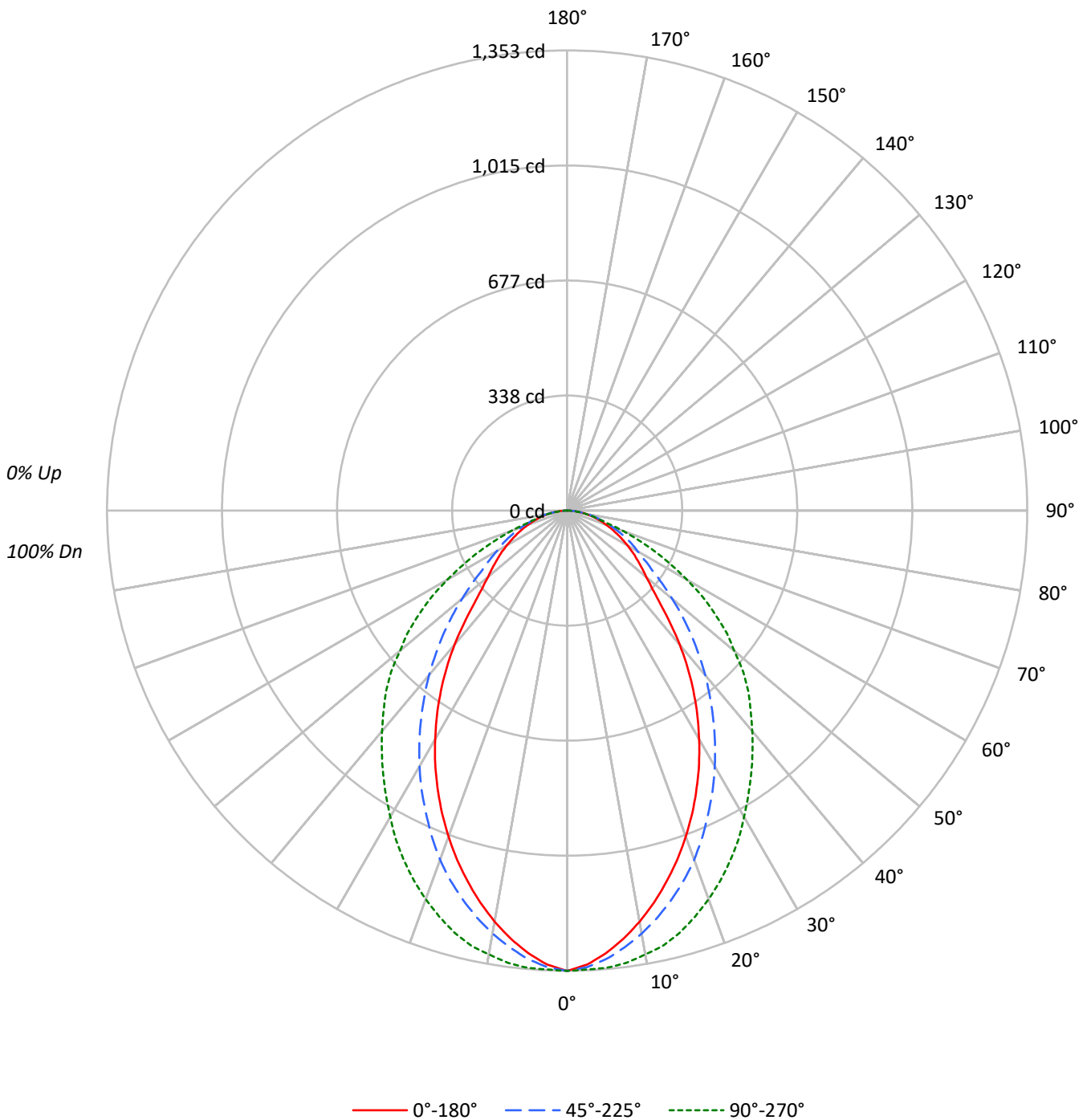
Lumens per Lamp: N/A
Luminaire Lumens: 2464.0 lumens
Efficiency: N/A
Efficacy: 58.9 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 1.15 / 1.1
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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									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	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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87																												
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75																												
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65																												
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57																												
5	80	69	60	54	78	68	60	54	65	59	54	64	58	53	62	57	52	50																												
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	45																												
7	70	57	49	43	68	56	49	43	55	48	43	54	47	43	52	47	42	41																												
8	65	53	45	39	64	52	44	39	51	44	39	50	43	39	48	43	39	37																												
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	34																												
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	36	32	31																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11654	11654	11654
5°	11294	11441	11663
10°	10731	11040	11587
15°	10068	10561	11446
20°	9347	10011	11141
25°	8560	9327	10784
30°	7716	8633	10340
35°	6800	7875	9917
40°	5789	7096	9521
45°	4699	6272	9174
50°	4067	5397	8590
55°	3770	4579	7966
60°	3519	4130	6987
65°	3295	3873	5811
70°	3072	3573	4393
75°	2928	3304	3164
80°	2742	3025	2673
85°	2519	2806	2104

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 9174 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.0	5.1
10°-20°	335.9	13.6
20°-30°	458.6	18.6
30°-40°	480.5	19.5
40°-50°	415.9	16.9
50°-60°	312.5	12.7
60°-70°	201.5	8.2
70°-80°	103.3	4.2
80°-90°	30.9	1.3
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°	919.4	37.3
0°-40°	1399.9	56.8
0°-60°	2128.3	86.4
0°-90°	2464.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2464.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1353	1353	1353	1353	1353	
5°	1307	1326	1324	1334	1349	122
15°	1129	1158	1185	1238	1284	317
25°	901	935	982	1058	1135	413
35°	647	684	749	848	943	403
45°	386	426	515	641	753	304
55°	251	260	305	436	531	226
65°	162	165	190	230	285	161
75°	88	98	99	98	95	93
85°	26	30	28	27	21	29
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1353.4	1353.4	1353.4	1353.4	1353.4
2.5°	1336.4	1353.4	1343.5	1346.3	1350.6
5°	1306.6	1326.5	1323.6	1333.6	1349.2
7.5°	1269.7	1291.0	1295.3	1318.0	1340.7
10°	1227.2	1251.3	1262.6	1296.7	1325.1
12.5°	1180.3	1205.9	1225.7	1268.3	1309.5
15°	1129.3	1157.7	1184.6	1238.5	1283.9
17.5°	1076.8	1105.2	1140.6	1200.2	1251.3
20°	1020.0	1051.2	1092.4	1154.8	1215.8
22.5°	961.9	994.5	1038.5	1106.6	1177.5
25°	900.9	934.9	981.7	1058.3	1135.0
27.5°	839.9	873.9	926.4	1007.3	1091.0
30°	776.0	811.5	868.2	956.2	1039.9
32.5°	712.2	750.5	808.7	902.3	991.7
35°	646.9	683.8	749.1	848.4	943.4
37.5°	581.7	620.0	689.5	795.9	895.2
40°	515.0	554.7	631.3	743.4	847.0
42.5°	448.3	490.9	571.7	689.5	798.7
45°	385.9	425.6	515.0	641.2	753.3
47.5°	339.1	366.0	458.2	594.4	702.3
50°	303.6	317.8	402.9	543.4	641.2
52.5°	276.6	286.6	351.8	488.0	591.6
55°	251.1	259.6	305.0	435.5	530.6
57.5°	228.4	232.7	269.6	384.5	472.4
60°	204.3	208.5	239.8	329.1	405.7
62.5°	183.0	185.8	215.6	276.6	344.7
65°	161.7	164.6	190.1	229.8	285.2
67.5°	141.9	146.1	166.0	187.3	227.0
70°	122.0	130.5	141.9	151.8	174.5
72.5°	105.0	113.5	119.2	122.0	123.4
75°	88.0	97.9	99.3	97.9	95.1
77.5°	70.9	79.4	79.4	76.6	73.8
80°	55.3	62.4	61.0	58.2	53.9
82.5°	41.1	45.4	44.0	41.1	36.9
85°	25.5	29.8	28.4	27.0	21.3
87.5°	12.8	17.0	15.6	14.2	8.5
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	14.97	16.45	15.33	16.76	17.08	18.74	20.22	19.10	20.54	20.85
	3H	16.62	17.95	17.00	18.28	18.64	19.85	21.18	20.23	21.51	21.87
	4H	17.29	18.54	17.69	18.89	19.26	20.14	21.39	20.54	21.74	22.12
	6H	17.80	18.95	18.21	19.32	19.71	20.34	21.49	20.75	21.86	22.25
	8H	17.98	19.08	18.41	19.47	19.87	20.39	21.49	20.82	21.88	22.28
	12H	18.11	19.16	18.54	19.54	19.97	20.42	21.47	20.85	21.85	22.28
4H	2H	15.75	16.99	16.15	17.34	17.72	18.90	20.14	19.30	20.49	20.87
	3H	17.61	18.64	18.02	19.04	19.44	20.21	21.24	20.62	21.64	22.04
	4H	18.42	19.35	18.85	19.76	20.20	20.62	21.55	21.05	21.96	22.40
	6H	19.06	19.87	19.52	20.31	20.78	20.93	21.74	21.39	22.18	22.64
	8H	19.29	20.05	19.76	20.49	20.96	21.03	21.78	21.49	22.22	22.69
	12H	19.46	20.14	19.95	20.61	21.09	21.09	21.76	21.57	22.24	22.71
8H	4H	18.77	19.52	19.23	19.97	20.43	20.75	21.50	21.21	21.95	22.42
	6H	19.56	20.18	20.06	20.67	21.15	21.16	21.78	21.66	22.28	22.75
	8H	19.88	20.44	20.40	20.95	21.44	21.31	21.87	21.83	22.38	22.87
	12H	20.14	20.64	20.65	21.13	21.70	21.44	21.93	21.95	22.42	22.99
12H	4H	18.80	19.47	19.28	19.95	20.42	20.75	21.43	21.24	21.91	22.38
	6H	19.62	20.18	20.14	20.69	21.18	21.18	21.74	21.70	22.25	22.74
	8H	20.01	20.50	20.52	20.99	21.56	21.39	21.88	21.90	22.37	22.94