

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: P1060339

Luminaire Tested: S124RDRP-S1195D927-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060339
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-S1195D927-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

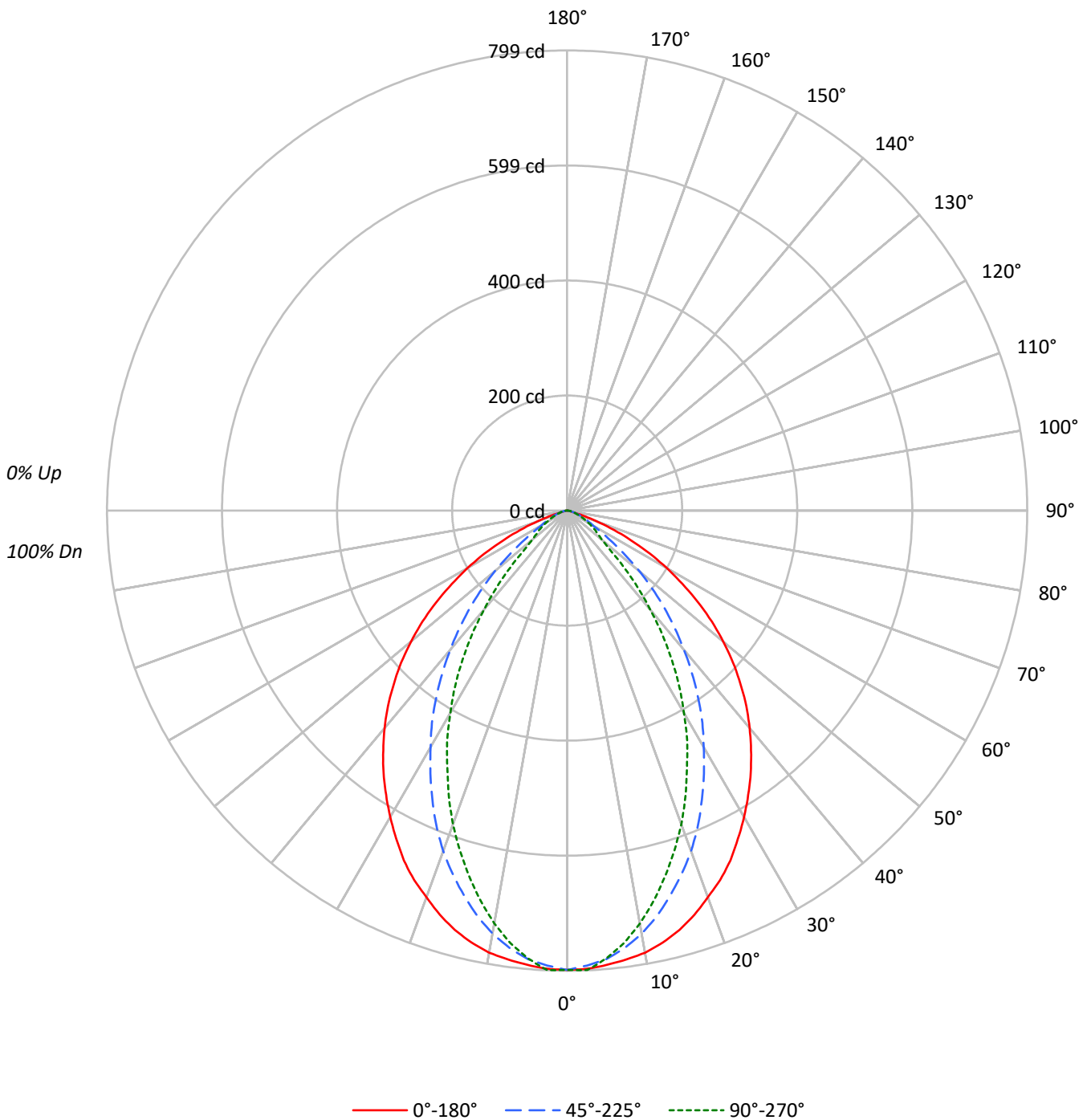
Lumens per Lamp: N/A
Luminaire Lumens: 1175.8 lumens
Efficiency: N/A
Efficacy: 28.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.87 / 1.02
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	6867	6867	6867
5°	6845	6758	6748
10°	6816	6521	6364
15°	6719	6168	5858
20°	6547	5764	5311
25°	6372	5261	4675
30°	6109	4713	4032
35°	5845	4168	3329
40°	5543	3548	2525
45°	5184	2900	1696
50°	4740	2197	1053
55°	4165	1450	893
60°	3443	890	735
65°	2494	687	595
70°	1357	509	453
75°	299	373	413
80°	223	278	332
85°	217	217	336

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5184 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.9	6.3
10°-20°	196.2	16.7
20°-30°	260.0	22.1
30°-40°	258.0	21.9
40°-50°	198.5	16.9
50°-60°	118.3	10.1
60°-70°	53.8	4.6
70°-80°	13.9	1.2
80°-90°	3.1	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°	530.1	45.1
0°-40°	788.1	67.0
0°-60°	1105.0	94.0
0°-90°	1175.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1175.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	798	798	798	798	798	
5°	792	793	782	782	781	75
15°	754	735	692	668	657	212
25°	671	622	554	508	492	308
35°	556	486	396	336	317	347
45°	426	343	238	166	139	328
55°	277	198	97	61	60	247
65°	122	73	34	29	29	123
75°	9	11	11	12	12	19
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°	797.5	797.5	797.5	797.5	797.5
2.5°	796.4	797.5	790.7	796.4	798.6
5°	791.9	793.0	781.8	781.8	780.6
7.5°	786.3	784.0	766.0	759.3	757.1
10°	779.5	771.7	745.8	732.3	727.8
12.5°	768.3	755.9	721.1	702.0	694.2
15°	753.7	734.6	691.9	668.3	657.1
17.5°	735.7	712.1	661.6	631.3	618.9
20°	714.4	682.9	629.0	590.8	579.6
22.5°	694.2	654.8	593.1	549.3	536.9
25°	670.6	622.3	553.7	507.7	492.0
27.5°	642.5	590.8	514.4	467.3	451.5
30°	614.4	557.1	474.0	424.6	405.5
32.5°	585.2	522.3	436.9	380.8	362.8
35°	556.0	486.4	396.5	335.8	316.7
37.5°	524.5	450.4	356.1	293.2	271.8
40°	493.1	415.6	315.6	251.6	224.6
42.5°	460.5	379.6	276.3	208.9	182.0
45°	425.7	342.6	238.1	166.2	139.3
47.5°	390.9	307.8	199.9	124.7	100.0
50°	353.8	270.7	164.0	91.0	78.6
52.5°	316.7	234.8	128.0	70.8	67.4
55°	277.4	197.7	96.6	60.7	59.5
57.5°	237.0	164.0	69.6	52.8	50.5
60°	199.9	132.5	51.7	44.9	42.7
62.5°	161.7	100.0	42.7	37.1	34.8
65°	122.4	73.0	33.7	29.2	29.2
67.5°	88.7	49.4	27.0	23.6	22.5
70°	53.9	30.3	20.2	19.1	18.0
72.5°	27.0	18.0	15.7	14.6	14.6
75°	9.0	11.2	11.2	12.4	12.4
77.5°	6.7	7.9	7.9	9.0	9.0
80°	4.5	5.6	5.6	6.7	6.7
82.5°	3.4	3.4	4.5	4.5	5.6
85°	2.2	2.2	2.2	3.4	3.4
87.5°	1.1	1.1	1.1	2.2	2.2
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	15.81	17.15	16.18	17.46	17.78	7.36	8.70	7.73	9.01	9.32
	3H	16.32	17.50	16.70	17.83	18.20	8.18	9.36	8.56	9.69	10.06
	4H	16.29	17.39	16.69	17.74	18.12	8.46	9.56	8.87	9.91	10.30
	6H	16.22	17.23	16.64	17.60	18.00	8.64	9.64	9.05	10.01	10.41
	8H	16.19	17.14	16.62	17.53	17.94	8.70	9.65	9.13	10.04	10.45
	12H	16.15	17.06	16.58	17.44	17.87	8.75	9.66	9.18	10.04	10.47
4H	2H	15.66	16.75	16.06	17.10	17.49	7.80	8.90	8.21	9.25	9.64
	3H	16.21	17.10	16.62	17.51	17.91	8.77	9.66	9.18	10.07	10.47
	4H	16.18	16.97	16.61	17.39	17.84	9.13	9.93	9.57	10.35	10.79
	6H	16.13	16.81	16.59	17.26	17.72	9.39	10.07	9.85	10.52	10.98
	8H	16.08	16.72	16.55	17.17	17.64	9.47	10.11	9.94	10.56	11.03
	12H	16.04	16.60	16.53	17.09	17.56	9.55	10.11	10.04	10.60	11.07
8H	4H	16.07	16.71	16.54	17.15	17.63	9.22	9.86	9.69	10.31	10.78
	6H	16.01	16.53	16.51	17.02	17.51	9.53	10.05	10.04	10.55	11.03
	8H	15.96	16.43	16.48	16.94	17.43	9.66	10.13	10.19	10.65	11.14
	12H	15.93	16.34	16.44	16.84	17.41	9.80	10.21	10.32	10.71	11.28
12H	4H	16.02	16.59	16.51	17.07	17.55	9.20	9.76	9.68	10.24	10.72
	6H	15.95	16.42	16.47	16.93	17.43	9.51	9.98	10.03	10.50	10.99
	8H	15.92	16.34	16.44	16.83	17.40	9.68	10.10	10.20	10.59	11.16