

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: P1060378

Luminaire Tested: S124RDRP-S1195D950-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060378
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-37)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDRP-S1195D950-X4F0-XX-UDD-WVL-B
Description: DEFINE 4 BLACK REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

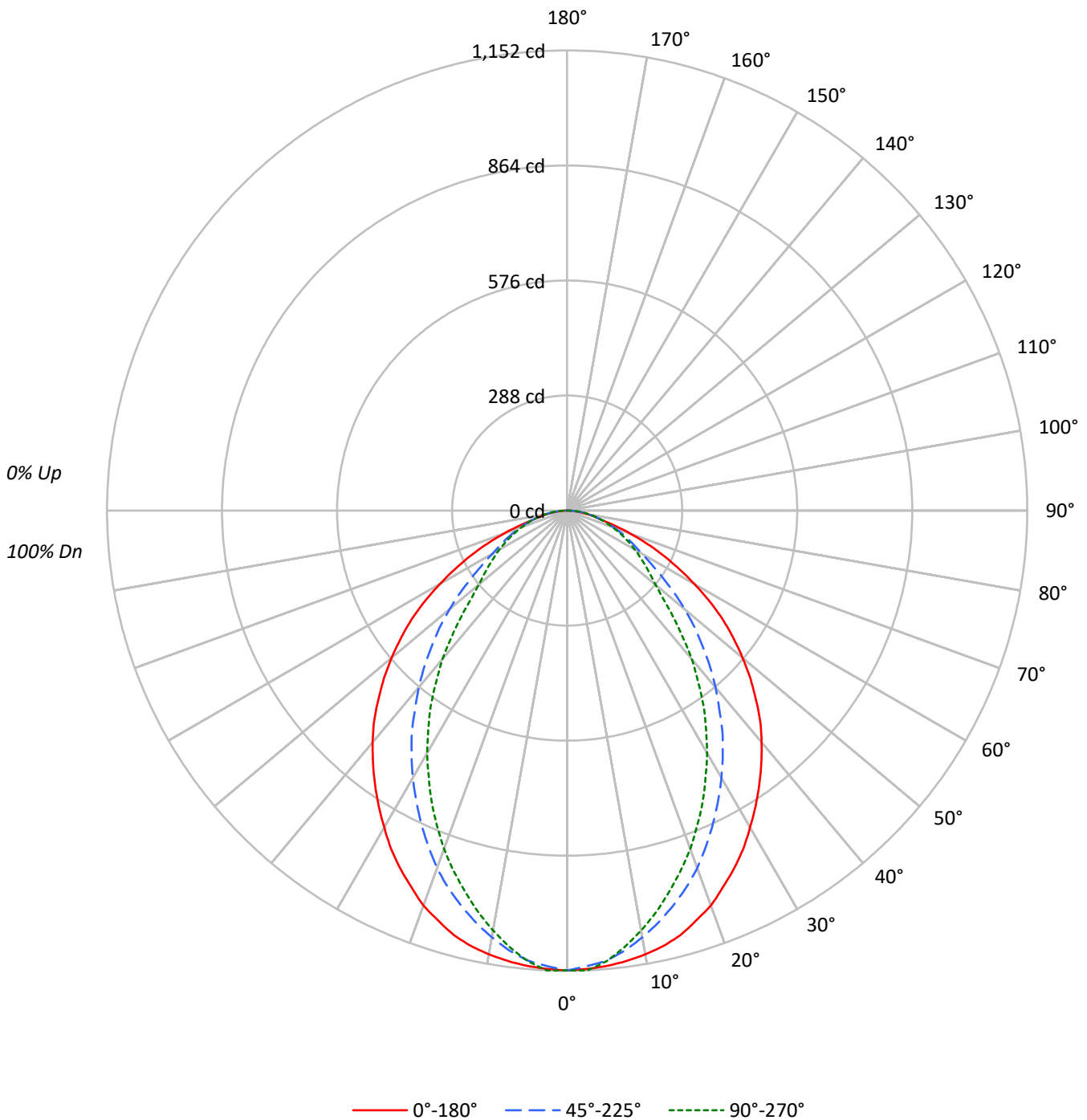
Lumens per Lamp: N/A
Luminaire Lumens: 2219.6 lumens
Efficiency: N/A
Efficacy: 53.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.96 / 1.12
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	89	84	80	85	82	78	82	79	76	74
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9912	9912	9912
5°	9892	9775	9787
10°	9864	9485	9332
15°	9804	9129	8803
20°	9644	8727	8256
25°	9395	8213	7634
30°	9106	7680	6967
35°	8817	7124	6257
40°	8515	6493	5459
45°	8137	5831	4563
50°	7683	5147	3860
55°	7148	4366	3575
60°	6336	3705	3377
65°	5402	3417	3197
70°	4222	3167	3031
75°	2881	2925	2925
80°	2479	2752	2817
85°	2134	2678	2944

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8137 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.1	4.8
10°-20°	290.9	13.1
20°-30°	403.8	18.2
30°-40°	432.8	19.5
40°-50°	383.4	17.3
50°-60°	289.0	13.0
60°-70°	187.1	8.4
70°-80°	96.0	4.3
80°-90°	29.5	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°	801.7	36.1
0°-40°	1234.6	55.6
0°-60°	1907.0	85.9
0°-90°	2219.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2219.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1151	1151	1151	1151	1151	
5°	1144	1146	1131	1132	1132	109
15°	1100	1075	1024	998	988	309
25°	989	936	864	818	804	455
35°	839	763	678	617	595	524
45°	668	582	479	404	375	515
55°	476	396	291	245	238	423
65°	265	214	168	158	157	263
75°	87	91	88	88	88	102
85°	22	23	27	30	30	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1151.1	1151.1	1151.1	1151.1	1151.1
2.5°	1148.4	1152.5	1141.7	1149.8	1152.5
5°	1144.4	1145.7	1130.8	1132.2	1132.2
7.5°	1137.6	1134.9	1110.5	1103.8	1102.4
10°	1128.1	1120.0	1084.8	1071.3	1067.3
12.5°	1116.0	1101.1	1056.4	1037.5	1029.4
15°	1099.7	1075.4	1024.0	998.3	987.5
17.5°	1075.4	1044.3	990.2	957.7	945.5
20°	1052.4	1010.4	952.3	911.7	900.9
22.5°	1019.9	975.3	909.0	865.7	852.2
25°	988.8	936.0	864.4	818.4	803.5
27.5°	955.0	895.5	818.4	769.7	750.7
30°	915.8	852.2	772.4	721.0	700.7
32.5°	877.9	810.3	725.0	668.2	646.6
35°	838.7	762.9	677.7	616.8	595.2
37.5°	798.1	718.3	624.9	565.4	537.0
40°	757.5	673.6	577.6	510.0	485.6
42.5°	715.6	627.6	528.9	458.6	427.4
45°	668.2	581.6	478.8	404.4	374.7
47.5°	622.2	537.0	432.9	351.7	324.6
50°	573.5	489.7	384.2	305.7	288.1
52.5°	524.8	441.0	336.8	270.5	262.4
55°	476.1	396.3	290.8	244.8	238.1
57.5°	422.0	350.3	250.2	221.8	216.4
60°	367.9	300.3	215.1	200.2	196.1
62.5°	315.2	257.0	190.7	178.6	175.8
65°	265.1	213.7	167.7	158.3	156.9
67.5°	216.4	175.8	146.1	140.7	138.0
70°	167.7	140.7	125.8	123.1	120.4
72.5°	124.4	113.6	106.9	105.5	104.2
75°	86.6	90.6	87.9	87.9	87.9
77.5°	69.0	70.3	71.7	73.0	71.7
80°	50.0	54.1	55.5	58.2	56.8
82.5°	35.2	37.9	41.9	43.3	44.6
85°	21.6	23.0	27.1	29.8	29.8
87.5°	9.5	10.8	13.5	16.2	17.6
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	18.41	19.91	18.77	20.22	20.53	14.97	16.47	15.34	16.78	17.10
	3H	19.61	20.96	19.99	21.28	21.65	16.67	18.01	17.05	18.34	18.70
	4H	19.92	21.18	20.32	21.53	21.91	17.35	18.61	17.75	18.95	19.33
	6H	20.12	21.29	20.53	21.65	22.04	17.89	19.06	18.31	19.42	19.82
	8H	20.18	21.29	20.61	21.68	22.08	18.11	19.22	18.54	19.61	20.01
	12H	20.21	21.27	20.64	21.66	22.08	18.29	19.35	18.72	19.73	20.16
4H	2H	18.55	19.81	18.95	20.16	20.54	15.63	16.89	16.03	17.24	17.62
	3H	19.95	21.00	20.36	21.40	21.80	17.54	18.59	17.95	18.99	19.39
	4H	20.38	21.32	20.81	21.73	22.17	18.34	19.28	18.78	19.70	20.14
	6H	20.70	21.52	21.16	21.96	22.42	19.03	19.85	19.49	20.29	20.75
	8H	20.80	21.56	21.26	22.01	22.48	19.31	20.07	19.77	20.51	20.98
	12H	20.87	21.55	21.35	22.03	22.50	19.54	20.22	20.02	20.70	21.17
8H	4H	20.51	21.27	20.97	21.71	22.18	18.66	19.43	19.13	19.87	20.34
	6H	20.93	21.56	21.42	22.05	22.53	19.49	20.12	19.99	20.61	21.09
	8H	21.08	21.65	21.60	22.16	22.65	19.86	20.42	20.37	20.93	21.42
	12H	21.21	21.71	21.72	22.21	22.77	20.19	20.69	20.70	21.18	21.75
12H	4H	20.51	21.19	20.99	21.67	22.14	18.69	19.37	19.17	19.85	20.32
	6H	20.95	21.52	21.47	22.03	22.52	19.55	20.12	20.06	20.63	21.12
	8H	21.16	21.66	21.67	22.15	22.72	19.98	20.48	20.49	20.98	21.54