

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: P1060341

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060341
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-74)
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-W
Description: DEFINE 4 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

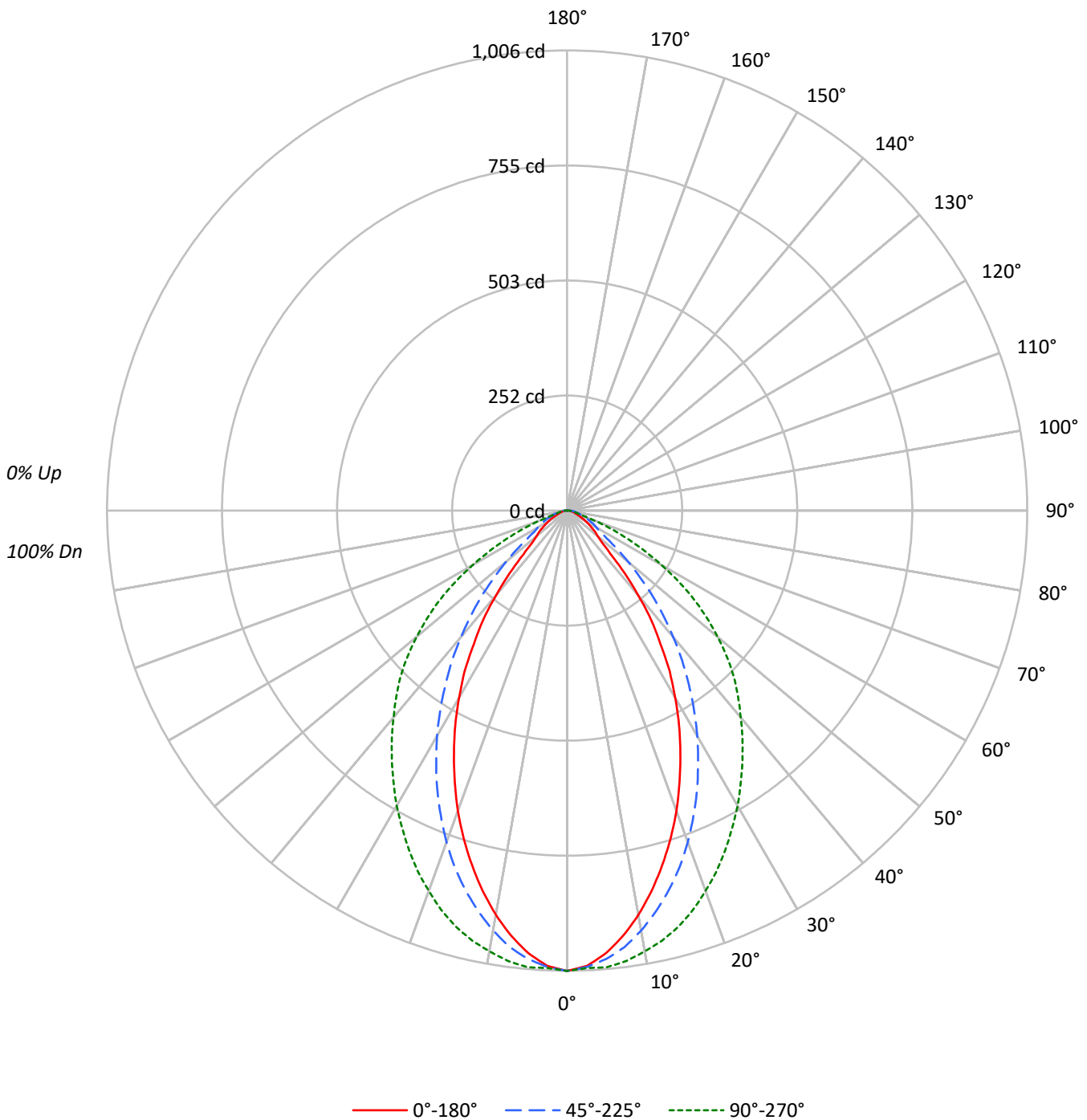
Lumens per Lamp: N/A
Luminaire Lumens: 1424.4 lumens
Efficiency: N/A
Efficacy: 34.1 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	111	108	104	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89					89			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79					79			
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70					70			
4	90	80	73	68	88	79	72	67	77	71	66	75	70	66	73	68	65	63					63			
5	84	73	66	60	82	72	65	60	70	64	60	69	63	59	67	62	58	57					57			
6	79	67	60	54	77	67	59	54	65	59	54	63	58	53	62	57	53	51					51			
7	74	62	55	49	72	61	54	49	60	54	49	59	53	49	57	52	48	47					47			
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	53	48	44	43					43			
9	65	54	46	42	64	53	46	41	52	46	41	51	45	41	50	45	41	39					39			
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8666	8666	8666
5°	8398	8505	8660
10°	7846	8151	8554
15°	7157	7659	8391
20°	6399	7069	8109
25°	5566	6389	7778
30°	4696	5658	7413
35°	3735	4870	7021
40°	2718	4057	6636
45°	1643	3204	6285
50°	1175	2320	5754
55°	995	1570	5082
60°	813	1278	4106
65°	642	1145	2957
70°	539	962	1556
75°	486	898	785
80°	501	893	779
85°	662	1334	889

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6285 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.6	6.5
10°-20°	242.8	17.0
20°-30°	314.9	22.1
30°-40°	303.1	21.3
40°-50°	225.5	15.8
50°-60°	138.7	9.7
60°-70°	68.1	4.8
70°-80°	26.6	1.9
80°-90°	12.1	0.9
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°	650.3	45.7
0°-40°	953.4	66.9
0°-60°	1317.6	92.5
0°-90°	1424.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1424.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1006	1006	1006	1006	1006	
5°	972	986	984	993	1002	90
15°	803	829	859	911	941	224
25°	586	617	672	757	819	268
35°	355	389	463	579	668	222
45°	135	168	263	406	516	112
55°	66	69	105	238	338	60
65°	32	34	56	90	145	32
75°	15	26	27	25	24	16
85°	7	12	14	14	9	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1006.4	1006.4	1006.4	1006.4	1006.4
2.5°	996.3	1007.5	998.5	999.6	1000.7
5°	971.5	986.1	983.9	992.9	1001.9
7.5°	937.8	954.6	962.5	980.5	992.9
10°	897.3	916.4	932.2	961.4	978.3
12.5°	852.3	874.8	897.3	936.7	962.5
15°	802.8	828.7	859.1	910.8	941.2
17.5°	752.2	778.1	817.5	877.1	915.3
20°	698.3	726.4	771.4	837.7	884.9
22.5°	642.1	672.4	721.9	797.2	853.4
25°	585.8	617.3	672.4	756.7	818.6
27.5°	529.6	560.0	619.6	714.0	781.5
30°	472.3	503.7	569.0	667.9	745.5
32.5°	417.2	446.4	516.1	624.1	706.1
35°	355.3	389.1	463.3	579.1	667.9
37.5°	302.5	332.8	412.7	534.1	629.7
40°	241.8	275.5	360.9	490.3	590.3
42.5°	185.5	219.3	311.5	446.4	553.2
45°	134.9	167.5	263.1	405.9	516.1
47.5°	102.3	121.4	215.9	366.6	474.5
50°	87.7	93.3	173.2	323.8	429.5
52.5°	77.6	79.8	134.9	281.1	384.6
55°	66.3	68.6	104.6	238.4	338.5
57.5°	56.2	57.3	84.3	197.9	289.0
60°	47.2	48.4	74.2	158.5	238.4
62.5°	39.4	40.5	66.3	122.6	190.0
65°	31.5	33.7	56.2	90.0	145.1
67.5°	25.9	30.4	47.2	63.0	101.2
70°	21.4	29.2	38.2	43.9	61.8
72.5°	18.0	27.0	32.6	31.5	30.4
75°	14.6	25.9	27.0	24.7	23.6
77.5°	12.4	22.5	22.5	20.2	19.1
80°	10.1	18.0	18.0	18.0	15.7
82.5°	9.0	14.6	15.7	15.7	12.4
85°	6.7	12.4	13.5	13.5	9.0
87.5°	4.5	11.2	12.4	11.2	6.7
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	7.28	8.62	7.65	8.94	9.25	16.46	17.80	16.82	18.11	18.43
	3H	8.40	9.59	8.78	9.92	10.28	16.96	18.15	17.34	18.48	18.85
	4H	8.91	10.03	9.32	10.38	10.76	16.98	18.09	17.38	18.44	18.83
	6H	9.35	10.37	9.76	10.74	11.13	16.99	18.01	17.41	18.38	18.78
	8H	9.54	10.51	9.97	10.90	11.30	17.00	17.96	17.43	18.35	18.76
	12H	9.72	10.64	10.15	11.03	11.46	17.00	17.92	17.43	18.31	18.74
4H	2H	8.43	9.54	8.83	9.89	10.27	16.35	17.46	16.75	17.81	18.19
	3H	9.77	10.68	10.18	11.08	11.49	16.94	17.85	17.35	18.25	18.65
	4H	10.51	11.32	10.94	11.74	12.18	17.00	17.81	17.43	18.23	18.67
	6H	11.12	11.82	11.58	12.27	12.73	17.07	17.77	17.53	18.22	18.68
	8H	11.36	12.02	11.83	12.46	12.93	17.10	17.76	17.57	18.20	18.67
	12H	11.59	12.18	12.08	12.66	13.13	17.14	17.72	17.63	18.21	18.68
8H	4H	10.97	11.63	11.44	12.08	12.55	16.95	17.61	17.42	18.06	18.53
	6H	11.82	12.36	12.33	12.86	13.34	17.08	17.62	17.58	18.11	18.59
	8H	12.23	12.71	12.75	13.23	13.72	17.16	17.65	17.68	18.16	18.65
	12H	12.65	13.08	13.17	13.58	14.15	17.28	17.71	17.80	18.21	18.78
12H	4H	11.03	11.61	11.51	12.09	12.57	16.93	17.51	17.41	17.99	18.46
	6H	11.96	12.44	12.48	12.95	13.45	17.06	17.55	17.58	18.06	18.55
	8H	12.48	12.91	12.99	13.40	13.97	17.19	17.62	17.71	18.12	18.69