

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: P1060350

Luminaire Tested: S124RDRP-S1195D930-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060350
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-S1195D930-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

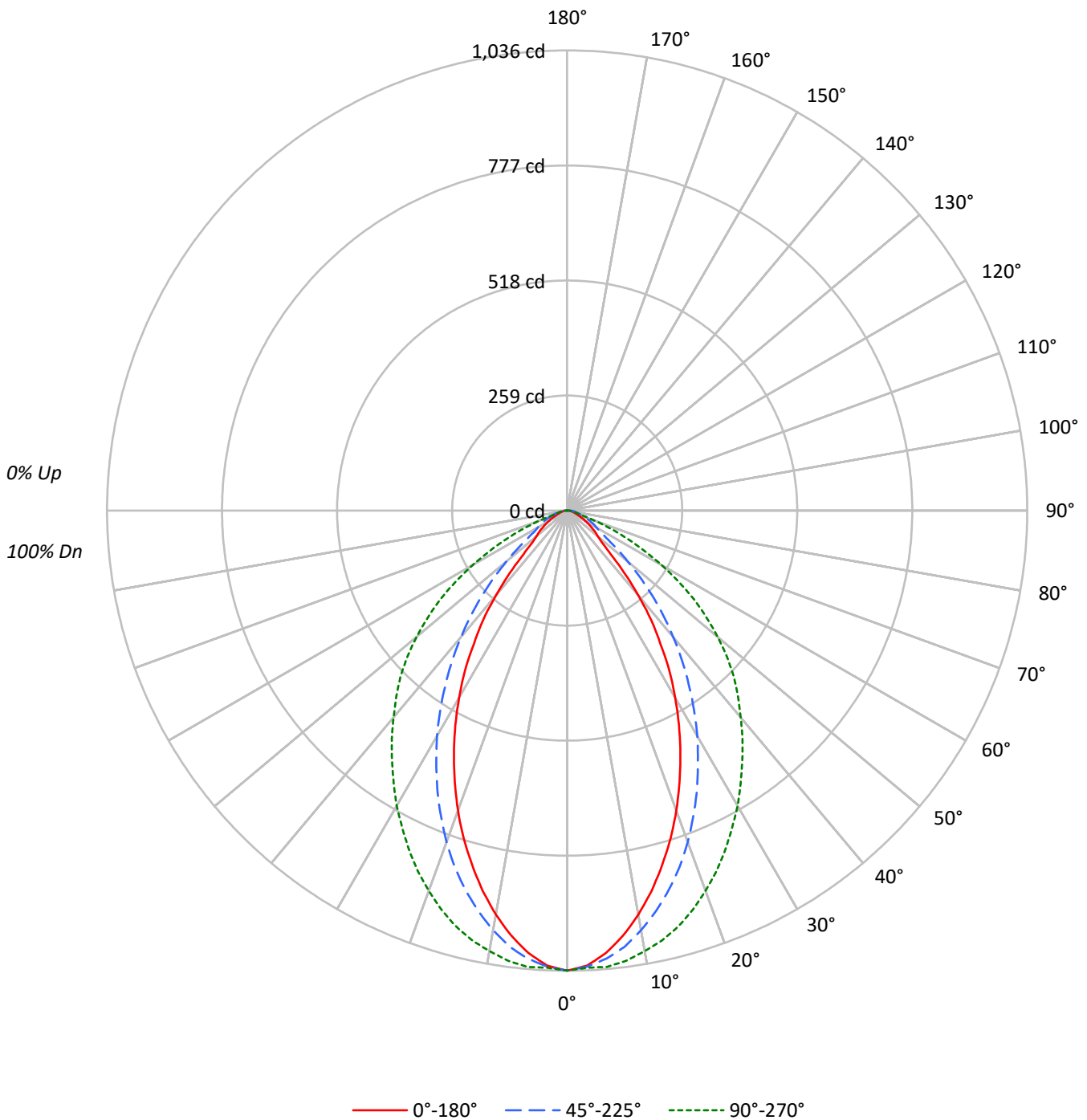
Lumens per Lamp: N/A
Luminaire Lumens: 1465.9 lumens
Efficiency: N/A
Efficacy: 35.1 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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°	8919	8919	8919
5°	8643	8753	8913
10°	8075	8389	8803
15°	7366	7882	8635
20°	6586	7275	8346
25°	5728	6575	8005
30°	4832	5823	7629
35°	3844	5012	7226
40°	2797	4176	6830
45°	1692	3298	6469
50°	1210	2387	5923
55°	1025	1615	5229
60°	837	1316	4225
65°	660	1180	3042
70°	554	989	1601
75°	499	925	808
80°	516	917	803
85°	682	1373	919

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6469 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.3	6.5
10°-20°	249.9	17.0
20°-30°	324.1	22.1
30°-40°	312.0	21.3
40°-50°	232.1	15.8
50°-60°	142.7	9.7
60°-70°	70.1	4.8
70°-80°	27.3	1.9
80°-90°	12.5	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°	669.3	45.7
0°-40°	981.3	66.9
0°-60°	1356.1	92.5
0°-90°	1465.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1465.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1036	1036	1036	1036	1036	
5°	1000	1015	1013	1022	1031	93
15°	826	853	884	937	969	231
25°	603	635	692	779	842	276
35°	366	400	477	596	687	229
45°	139	172	271	418	531	115
55°	68	71	108	245	348	61
65°	32	35	58	93	149	33
75°	15	27	28	26	24	16
85°	7	13	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°	1035.7	1035.7	1035.7	1035.7	1035.7
2.5°	1025.3	1036.9	1027.6	1028.8	1030.0
5°	999.9	1014.9	1012.6	1021.9	1031.1
7.5°	965.1	982.5	990.6	1009.1	1021.9
10°	923.5	943.2	959.4	989.4	1006.8
12.5°	877.2	900.3	923.5	964.0	990.6
15°	826.3	852.9	884.1	937.4	968.6
17.5°	774.2	800.8	841.3	902.7	942.0
20°	718.7	747.6	793.9	862.2	910.8
22.5°	660.8	692.0	743.0	820.5	878.4
25°	602.9	635.3	692.0	778.8	842.5
27.5°	545.1	576.3	637.6	734.9	804.3
30°	486.0	518.4	585.6	687.4	767.3
32.5°	429.3	459.4	531.2	642.3	726.8
35°	365.7	400.4	476.8	596.0	687.4
37.5°	311.3	342.5	424.7	549.7	648.1
40°	248.8	283.5	371.5	504.6	607.6
42.5°	190.9	225.7	320.6	459.4	569.4
45°	138.9	172.4	270.8	417.8	531.2
47.5°	105.3	125.0	222.2	377.3	488.4
50°	90.3	96.1	178.2	333.3	442.1
52.5°	79.9	82.2	138.9	289.3	395.8
55°	68.3	70.6	107.6	245.3	348.3
57.5°	57.9	59.0	86.8	203.7	297.4
60°	48.6	49.8	76.4	163.2	245.3
62.5°	40.5	41.7	68.3	126.1	195.6
65°	32.4	34.7	57.9	92.6	149.3
67.5°	26.6	31.2	48.6	64.8	104.2
70°	22.0	30.1	39.3	45.1	63.6
72.5°	18.5	27.8	33.6	32.4	31.2
75°	15.0	26.6	27.8	25.5	24.3
77.5°	12.7	23.1	23.1	20.8	19.7
80°	10.4	18.5	18.5	18.5	16.2
82.5°	9.3	15.0	16.2	16.2	12.7
85°	6.9	12.7	13.9	13.9	9.3
87.5°	4.6	11.6	12.7	11.6	6.9
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	7.39	8.73	7.75	9.04	9.36	16.56	17.90	16.92	18.21	18.53
	3H	8.50	9.69	8.88	10.02	10.38	17.06	18.25	17.44	18.58	18.95
	4H	9.01	10.12	9.42	10.47	10.86	17.08	18.19	17.48	18.54	18.93
	6H	9.45	10.47	9.86	10.84	11.23	17.09	18.11	17.51	18.48	18.88
	8H	9.64	10.60	10.07	10.99	11.40	17.10	18.06	17.53	18.45	18.86
	12H	9.82	10.74	10.25	11.13	11.56	17.10	18.02	17.53	18.41	18.84
4H	2H	8.53	9.64	8.94	9.99	10.38	16.45	17.56	16.85	17.91	18.29
	3H	9.87	10.78	10.29	11.19	11.59	17.04	17.95	17.45	18.35	18.75
	4H	10.61	11.42	11.04	11.84	12.28	17.10	17.91	17.53	18.33	18.77
	6H	11.21	11.92	11.68	12.36	12.83	17.17	17.87	17.63	18.32	18.79
	8H	11.46	12.11	11.92	12.56	13.03	17.20	17.86	17.67	18.30	18.77
	12H	11.69	12.27	12.18	12.76	13.23	17.24	17.82	17.73	18.31	18.78
8H	4H	11.07	11.73	11.54	12.18	12.65	17.05	17.71	17.52	18.16	18.63
	6H	11.92	12.46	12.42	12.95	13.43	17.18	17.72	17.68	18.21	18.69
	8H	12.33	12.81	12.85	13.32	13.82	17.26	17.75	17.78	18.26	18.75
	12H	12.75	13.18	13.26	13.67	14.24	17.39	17.81	17.90	18.31	18.88
12H	4H	11.13	11.71	11.61	12.19	12.66	17.03	17.61	17.51	18.09	18.56
	6H	12.05	12.54	12.57	13.05	13.54	17.16	17.65	17.68	18.16	18.65
	8H	12.57	13.00	13.09	13.50	14.07	17.30	17.72	17.81	18.22	18.79