

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: P1060365

Luminaire Tested: S124RDRP-S1195D940-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060365
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-75)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDRP-S1195D940-X4F0-XX-UDD-BVL-W
Description: DEFINE 4 WHITE REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

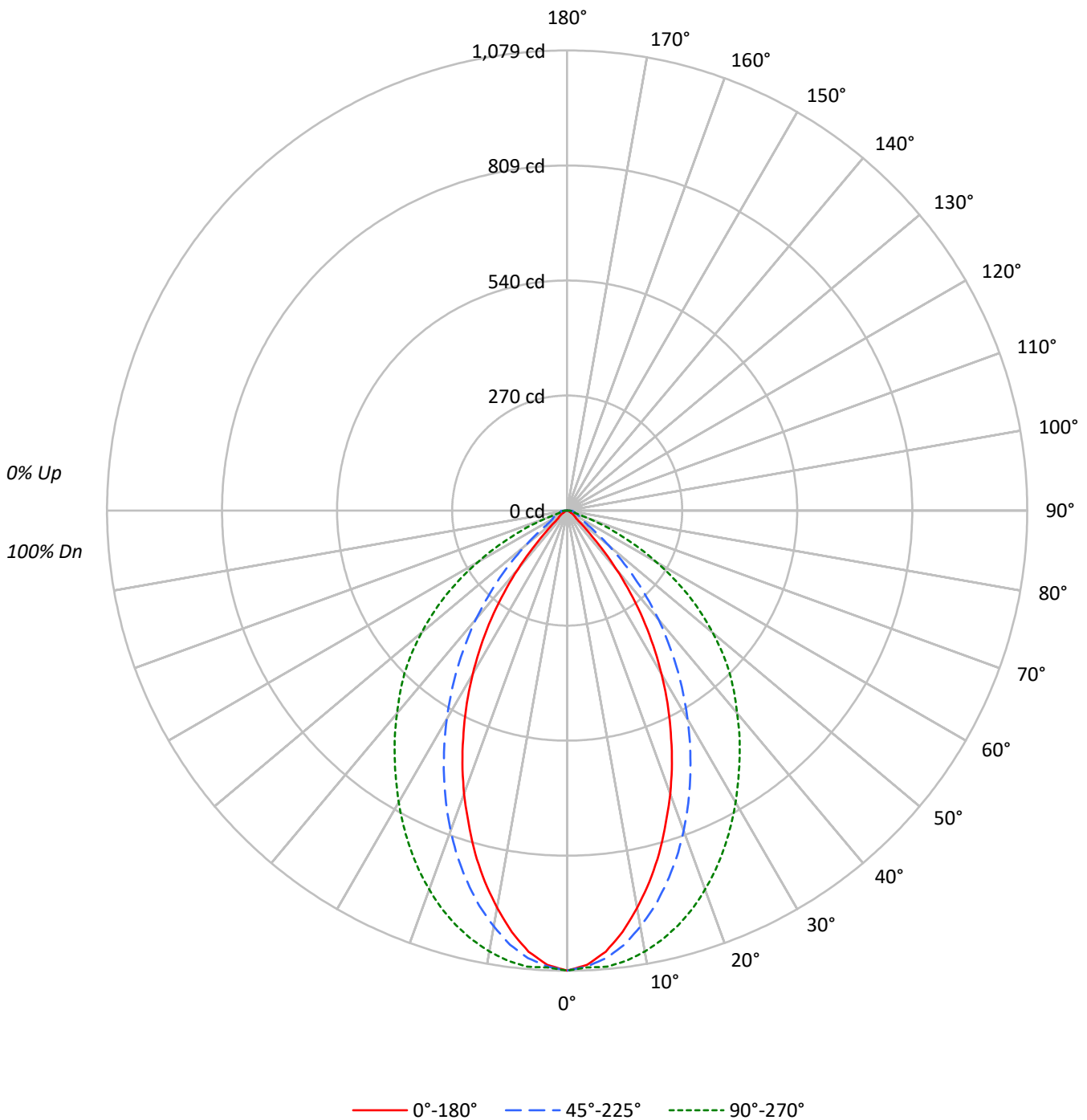
Lumens per Lamp: N/A
Luminaire Lumens: 1359.4 lumens
Efficiency: N/A
Efficacy: 32.5 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.11 / 0.97
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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	98	98	96	95	95	93	92	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72
4	91	82	75	70	89	81	75	70	79	73	69	76	72	68	74	70	67	65
5	86	75	68	63	84	74	68	63	72	67	62	71	66	62	69	65	61	59
6	80	70	62	57	79	69	62	57	67	61	56	66	60	56	64	59	56	54
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49
8	71	60	53	48	70	59	52	48	58	52	48	57	51	47	56	51	47	45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	63	52	45	41	62	52	45	41	51	45	41	50	44	41	49	44	40	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9288	9288	9288
5°	8973	9105	9280
10°	8269	8657	9177
15°	7426	8047	8973
20°	6473	7320	8666
25°	5461	6495	8288
30°	4406	5614	7855
35°	3261	4698	7413
40°	2021	3743	6973
45°	801	2729	6568
50°	356	1713	5969
55°	285	893	5228
60°	196	675	4164
65°	128	670	2863
70°	128	607	1339
75°	170	589	589
80°	253	689	689
85°	504	1373	998

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6568 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.9	7.3
10°-20°	255.4	18.8
20°-30°	322.3	23.7
30°-40°	295.7	21.8
40°-50°	201.4	14.8
50°-60°	109.7	8.1
60°-70°	47.5	3.5
70°-80°	17.3	1.3
80°-90°	11.1	0.8
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°	676.6	49.8
0°-40°	972.4	71.5
0°-60°	1283.5	94.4
0°-90°	1359.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1359.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1079	1079	1079	1079	1079	
5°	1038	1052	1053	1065	1074	96
15°	833	862	903	967	1006	232
25°	575	615	684	792	872	263
35°	310	356	447	589	705	192
45°	66	110	224	398	539	61
55°	19	20	60	219	348	17
65°	6	9	33	68	140	7
75°	5	16	18	18	18	5
85°	5	11	14	14	10	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1078.6	1078.6	1078.6	1078.6	1078.6
2.5°	1066.0	1078.6	1069.8	1072.3	1072.3
5°	1038.1	1052.0	1053.3	1064.7	1073.6
7.5°	996.3	1016.6	1026.7	1049.5	1064.7
10°	945.7	969.8	990.0	1029.3	1049.5
12.5°	891.3	919.1	949.5	1001.4	1030.5
15°	833.0	862.1	902.7	967.2	1006.5
17.5°	768.5	803.9	853.3	930.5	978.6
20°	706.4	741.9	798.8	886.2	945.7
22.5°	641.9	678.6	741.9	839.4	910.3
25°	574.8	615.3	683.6	792.5	872.3
27.5°	508.9	552.0	624.1	743.1	831.8
30°	443.1	486.1	564.6	692.5	790.0
32.5°	376.0	420.3	505.1	639.3	746.9
35°	310.2	355.7	446.9	588.7	705.2
37.5°	243.1	291.2	388.7	539.3	663.4
40°	179.8	227.9	333.0	489.9	620.3
42.5°	120.3	168.4	276.0	441.8	579.8
45°	65.8	110.1	224.1	397.5	539.3
47.5°	35.4	60.8	173.4	354.5	493.7
50°	26.6	32.9	127.9	308.9	445.6
52.5°	22.8	25.3	88.6	260.8	397.5
55°	19.0	20.3	59.5	219.0	348.2
57.5°	15.2	16.5	44.3	177.2	295.0
60°	11.4	13.9	39.2	136.7	241.8
62.5°	8.9	11.4	36.7	100.0	191.2
65°	6.3	8.9	32.9	68.4	140.5
67.5°	6.3	10.1	27.9	44.3	95.0
70°	5.1	13.9	24.1	29.1	53.2
72.5°	5.1	15.2	20.3	20.3	20.3
75°	5.1	16.5	17.7	17.7	17.7
77.5°	5.1	15.2	16.5	15.2	15.2
80°	5.1	13.9	13.9	13.9	13.9
82.5°	5.1	12.7	13.9	13.9	11.4
85°	5.1	11.4	13.9	13.9	10.1
87.5°	3.8	11.4	12.7	12.7	7.6
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	0.00	0.07	0.00	0.38	0.70	16.15	17.43	16.52	17.74	18.06
	3H	0.21	1.34	0.59	1.67	2.04	16.53	17.66	16.91	17.99	18.35
	4H	1.44	2.49	1.84	2.84	3.23	16.51	17.56	16.91	17.91	18.29
	6H	2.62	3.59	3.04	3.96	4.36	16.49	17.46	16.91	17.83	18.23
	8H	3.22	4.13	3.65	4.52	4.93	16.49	17.41	16.92	17.80	18.20
	12H	3.89	4.77	4.33	5.15	5.58	16.51	17.38	16.94	17.76	18.19
4H	2H	2.40	3.45	2.80	3.80	4.19	15.96	17.01	16.37	17.37	17.75
	3H	3.98	4.84	4.40	5.25	5.65	16.38	17.24	16.80	17.65	18.05
	4H	5.28	6.05	5.72	6.47	6.91	16.38	17.15	16.82	17.57	18.01
	6H	6.41	7.07	6.87	7.52	7.99	16.42	17.08	16.88	17.53	18.00
	8H	6.92	7.54	7.39	7.99	8.46	16.45	17.07	16.92	17.51	17.98
	12H	7.48	8.02	7.96	8.51	8.98	16.51	17.06	17.00	17.54	18.02
8H	4H	6.37	6.98	6.84	7.43	7.90	16.29	16.91	16.76	17.36	17.83
	6H	7.91	8.41	8.41	8.91	9.39	16.37	16.87	16.87	17.37	17.85
	8H	8.72	9.17	9.24	9.69	10.18	16.45	16.91	16.97	17.42	17.92
	12H	9.55	9.96	10.07	10.45	11.02	16.62	17.02	17.14	17.52	18.09
12H	4H	6.55	7.10	7.04	7.58	8.06	16.25	16.80	16.74	17.28	17.76
	6H	8.26	8.72	8.78	9.23	9.72	16.34	16.80	16.86	17.31	17.81
	8H	9.28	9.68	9.79	10.17	10.75	16.48	16.88	16.99	17.38	17.95