

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: P1060368

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060368
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-S1195D940-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

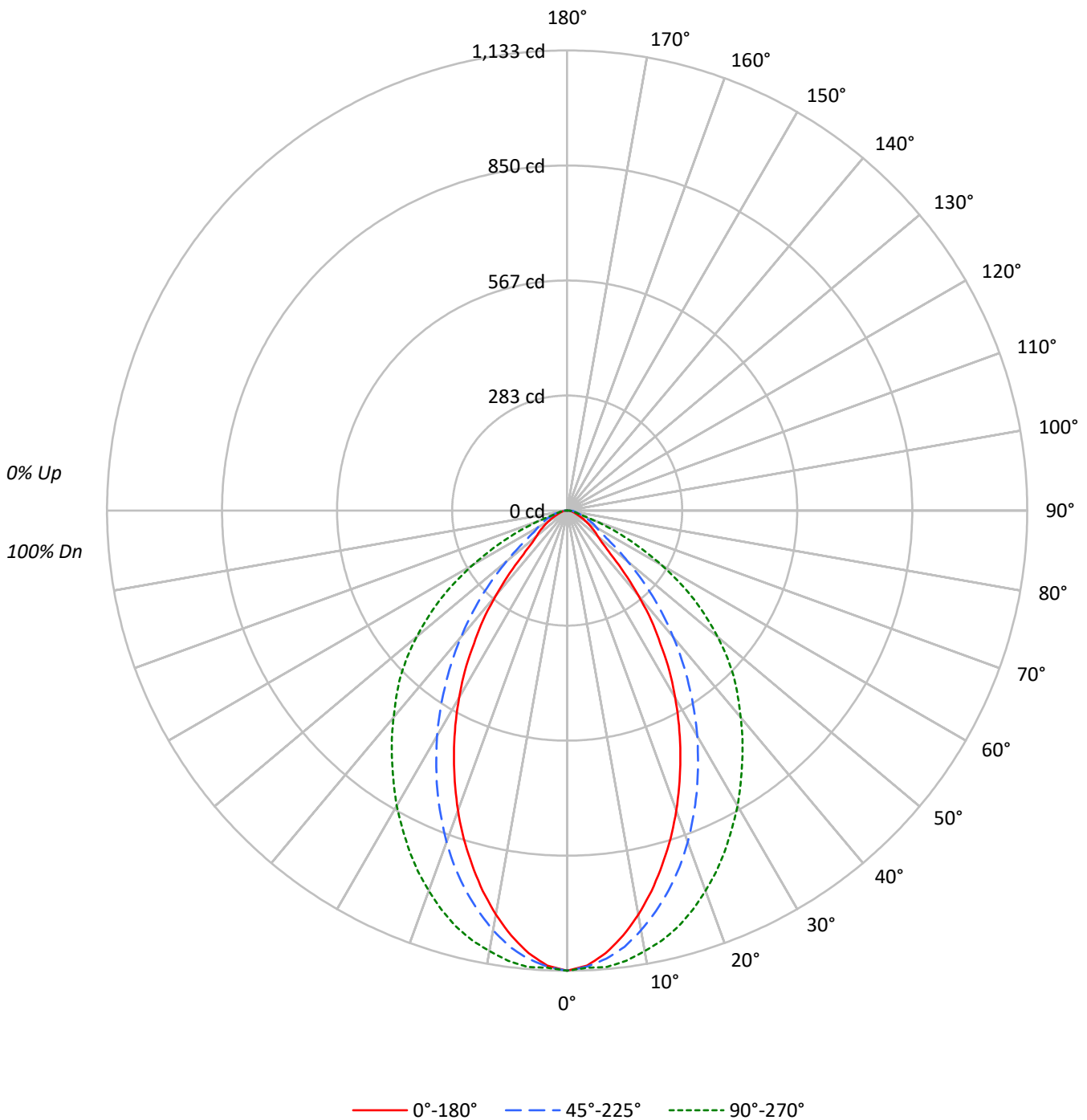
Lumens per Lamp: N/A
Luminaire Lumens: 1603.4 lumens
Efficiency: N/A
Efficacy: 38.4 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	108	104	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70
4	90	80	73	68	88	79	72	67	77	71	66	75	70	66	73	68	65	63
5	84	73	66	60	82	72	65	60	70	64	60	69	63	59	67	62	58	57
6	79	67	60	54	77	67	59	54	65	59	54	63	58	53	62	57	53	51
7	74	62	55	49	72	61	54	49	60	54	49	59	53	49	57	52	48	47
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	53	48	44	43
9	65	54	46	42	64	53	46	41	52	46	41	51	45	41	50	45	41	39
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9755	9755	9755
5°	9453	9573	9748
10°	8831	9175	9629
15°	8056	8621	9444
20°	7203	7957	9128
25°	6265	7192	8755
30°	5286	6369	8344
35°	4205	5482	7903
40°	3059	4567	7470
45°	1850	3607	7075
50°	1322	2611	6477
55°	1121	1767	5720
60°	916	1438	4621
65°	721	1290	3327
70°	604	1083	1752
75°	549	1011	885
80°	565	1007	878
85°	751	1502	998

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 7075 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.3	6.5
10°-20°	273.3	17.0
20°-30°	354.4	22.1
30°-40°	341.2	21.3
40°-50°	253.8	15.8
50°-60°	156.1	9.7
60°-70°	76.7	4.8
70°-80°	29.9	1.9
80°-90°	13.6	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°	732.0	45.7
0°-40°	1073.2	66.9
0°-60°	1483.1	92.5
0°-90°	1603.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1603.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1133	1133	1133	1133	1133	
5°	1094	1110	1108	1118	1128	102
15°	904	933	967	1025	1059	252
25°	659	695	757	852	921	302
35°	400	438	522	652	752	250
45°	152	189	296	457	581	126
55°	75	77	118	268	381	67
65°	35	38	63	101	163	36
75°	16	29	30	28	27	18
85°	8	14	15	15	10	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1132.8	1132.8	1132.8	1132.8	1132.8
2.5°	1121.4	1134.1	1124.0	1125.2	1126.5
5°	1093.6	1110.0	1107.5	1117.6	1127.7
7.5°	1055.6	1074.6	1083.4	1103.7	1117.6
10°	1010.0	1031.6	1049.3	1082.2	1101.2
12.5°	959.4	984.7	1010.0	1054.3	1083.4
15°	903.7	932.8	967.0	1025.2	1059.4
17.5°	846.8	875.9	920.2	987.3	1030.3
20°	786.0	817.6	868.3	943.0	996.1
22.5°	722.7	756.9	812.6	897.4	960.7
25°	659.4	694.9	756.9	851.8	921.4
27.5°	596.2	630.3	697.4	803.7	879.7
30°	531.6	567.0	640.5	751.8	839.2
32.5°	469.6	502.5	581.0	702.5	794.9
35°	400.0	437.9	521.5	651.8	751.8
37.5°	340.5	374.7	464.5	601.2	708.8
40°	272.1	310.1	406.3	551.9	664.5
42.5°	208.8	246.8	350.6	502.5	622.7
45°	151.9	188.6	296.2	456.9	581.0
47.5°	115.2	136.7	243.0	412.6	534.1
50°	98.7	105.1	194.9	364.5	483.5
52.5°	87.3	89.9	151.9	316.4	432.9
55°	74.7	77.2	117.7	268.3	381.0
57.5°	63.3	64.6	94.9	222.8	325.3
60°	53.2	54.4	83.5	178.5	268.3
62.5°	44.3	45.6	74.7	138.0	213.9
65°	35.4	38.0	63.3	101.3	163.3
67.5°	29.1	34.2	53.2	70.9	113.9
70°	24.0	32.9	43.0	49.4	69.6
72.5°	20.3	30.4	36.7	35.4	34.2
75°	16.5	29.1	30.4	27.8	26.6
77.5°	13.9	25.3	25.3	22.8	21.5
80°	11.4	20.3	20.3	20.3	17.7
82.5°	10.1	16.5	17.7	17.7	13.9
85°	7.6	13.9	15.2	15.2	10.1
87.5°	5.1	12.7	13.9	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	7.70	9.04	8.07	9.36	9.67	16.87	18.21	17.23	18.52	18.84
	3H	8.81	10.00	9.19	10.33	10.70	17.37	18.56	17.75	18.89	19.26
	4H	9.33	10.44	9.73	10.79	11.17	17.39	18.50	17.80	18.85	19.24
	6H	9.76	10.78	10.18	11.15	11.55	17.40	18.43	17.82	18.80	19.19
	8H	9.95	10.92	10.38	11.31	11.72	17.41	18.38	17.84	18.77	19.17
	12H	10.13	11.06	10.57	11.44	11.87	17.41	18.34	17.84	18.72	19.15
4H	2H	8.85	9.96	9.25	10.31	10.69	16.76	17.87	17.16	18.22	18.60
	3H	10.19	11.10	10.60	11.50	11.90	17.35	18.26	17.76	18.66	19.06
	4H	10.92	11.73	11.36	12.15	12.60	17.41	18.22	17.84	18.64	19.08
	6H	11.53	12.23	11.99	12.68	13.14	17.48	18.19	17.94	18.63	19.10
	8H	11.77	12.43	12.24	12.88	13.35	17.51	18.17	17.98	18.62	19.09
	12H	12.01	12.59	12.49	13.07	13.55	17.55	18.13	18.04	18.62	19.09
8H	4H	11.39	12.04	11.86	12.49	12.96	17.37	18.02	17.83	18.47	18.94
	6H	12.24	12.78	12.74	13.27	13.75	17.49	18.03	17.99	18.53	19.01
	8H	12.64	13.13	13.17	13.64	14.13	17.58	18.06	18.10	18.57	19.07
	12H	13.07	13.50	13.58	13.99	14.56	17.70	18.12	18.21	18.62	19.19
12H	4H	11.44	12.02	11.93	12.50	12.98	17.34	17.92	17.82	18.40	18.88
	6H	12.37	12.85	12.89	13.37	13.86	17.47	17.96	18.00	18.47	18.96
	8H	12.89	13.32	13.41	13.82	14.39	17.61	18.04	18.12	18.53	19.10