

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: P1060344

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060344
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-73)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDRP-S1195D927-X4F0-XX-UDD-WVL-W
Description: DEFINE 4 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

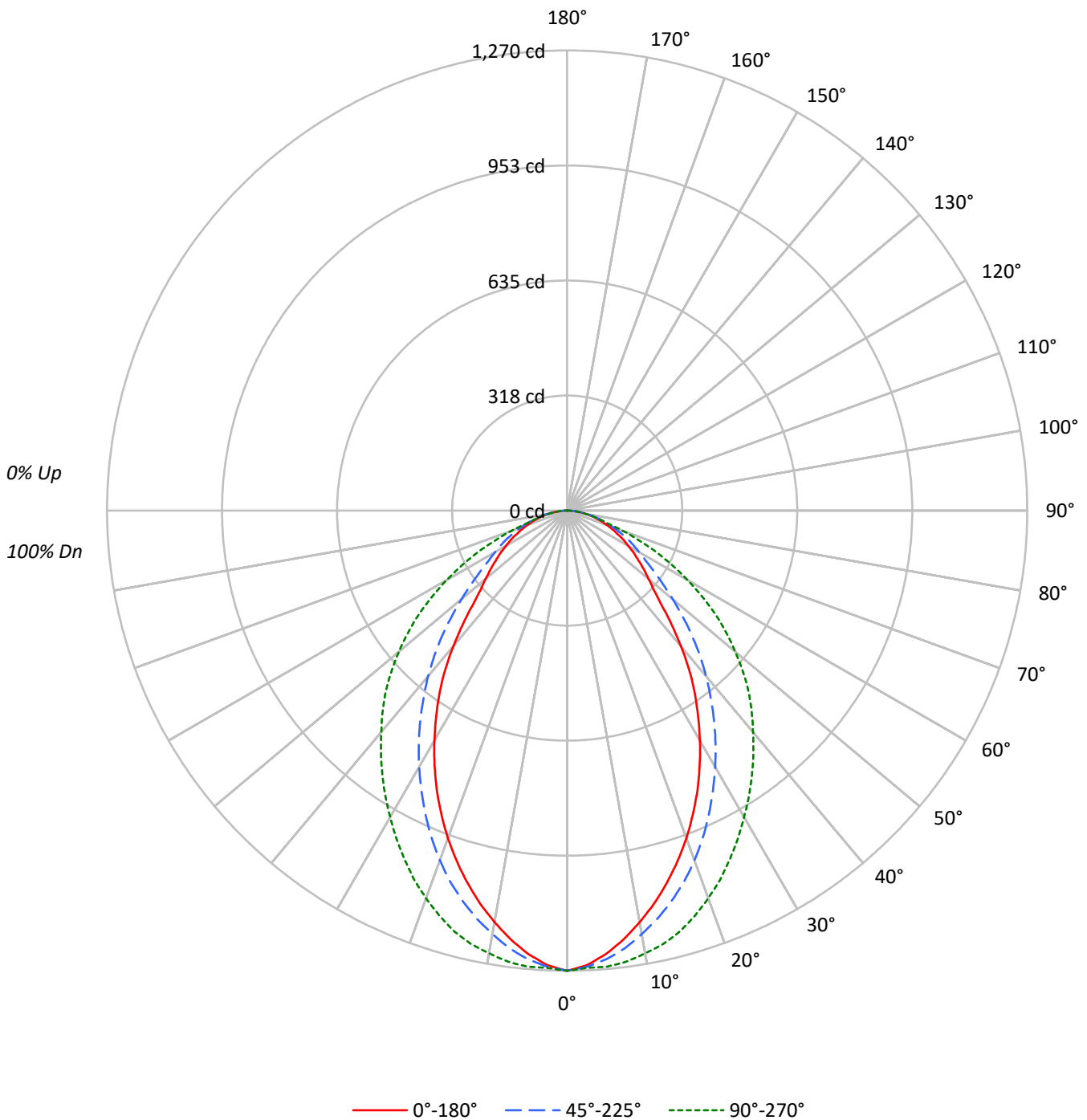
Lumens per Lamp: N/A
Luminaire Lumens: 2330.6 lumens
Efficiency: N/A
Efficacy: 55.8 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 1.15 / 1.11
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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	108	104	100	97	100	97	94	96	93	91	92	90	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67	65
4	86	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	57
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	56	52	50
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	57	51	47	45
7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	52	47	42	40
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	33
10	58	45	38	33	56	45	38	33	44	37	33	43	37	32	42	36	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10937	10937	10937
5°	10619	10745	10921
10°	10084	10378	10850
15°	9479	9940	10722
20°	8816	9414	10434
25°	8085	8790	10092
30°	7286	8125	9713
35°	6451	7432	9346
40°	5483	6709	8970
45°	4490	5927	8623
50°	3931	5089	8116
55°	3611	4387	7510
60°	3350	3949	6620
65°	3138	3710	5542
70°	2943	3396	4159
75°	2768	3104	3028
80°	2564	2841	2564
85°	2332	2776	2223

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 8623 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.4	5.0
10°-20°	315.8	13.6
20°-30°	431.7	18.5
30°-40°	453.7	19.5
40°-50°	393.7	16.9
50°-60°	297.0	12.7
60°-70°	192.5	8.3
70°-80°	98.8	4.2
80°-90°	29.9	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°	864.9	37.1
0°-40°	1318.6	56.6
0°-60°	2009.3	86.2
0°-90°	2330.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2330.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1270	1270	1270	1270	1270	
5°	1228	1245	1243	1253	1263	115
15°	1063	1089	1115	1166	1203	298
25°	851	881	925	996	1062	390
35°	614	647	707	801	889	382
45°	369	404	487	608	708	290
55°	240	247	292	415	500	216
65°	154	157	182	220	272	153
75°	83	93	93	94	91	88
85°	24	29	28	27	22	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1270.1	1270.1	1270.1	1270.1	1270.1
2.5°	1255.5	1271.2	1260.0	1262.3	1263.4
5°	1228.5	1245.4	1243.1	1253.3	1263.4
7.5°	1193.7	1213.9	1218.4	1238.6	1255.5
10°	1153.2	1175.7	1186.9	1219.5	1240.9
12.5°	1110.5	1133.0	1153.2	1194.8	1225.2
15°	1063.3	1089.2	1115.0	1165.6	1202.7
17.5°	1013.8	1040.8	1073.4	1128.5	1172.3
20°	962.1	989.1	1027.3	1086.9	1138.6
22.5°	907.1	937.4	977.9	1041.9	1102.6
25°	850.9	881.2	925.1	995.9	1062.2
27.5°	792.4	823.9	871.1	949.8	1020.6
30°	732.8	766.6	817.1	900.3	976.8
32.5°	672.2	708.1	762.1	850.9	934.0
35°	613.7	647.4	707.0	801.4	889.1
37.5°	553.0	586.7	650.8	753.1	844.1
40°	487.8	524.9	596.8	702.5	798.0
42.5°	427.1	464.2	541.8	654.2	754.2
45°	368.7	403.5	486.7	608.1	708.1
47.5°	323.7	348.4	431.6	563.1	658.7
50°	293.4	304.6	379.9	513.7	605.8
52.5°	266.4	275.4	332.7	464.2	554.1
55°	240.5	247.3	292.2	414.8	500.2
57.5°	218.1	221.4	256.3	365.3	441.7
60°	194.5	198.9	229.3	314.7	384.4
62.5°	175.3	177.6	205.7	266.4	327.1
65°	154.0	157.4	182.1	220.3	272.0
67.5°	134.9	140.5	157.4	179.8	214.7
70°	116.9	124.8	134.9	146.1	165.2
72.5°	100.0	109.0	114.6	119.1	115.8
75°	83.2	93.3	93.3	94.4	91.0
77.5°	67.4	76.4	75.3	74.2	69.7
80°	51.7	59.6	57.3	56.2	51.7
82.5°	38.2	43.8	41.6	40.5	34.8
85°	23.6	29.2	28.1	27.0	22.5
87.5°	11.2	16.9	15.7	14.6	10.1
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	14.81	16.30	15.18	16.61	16.93	18.55	20.04	18.92	20.35	20.67
	3H	16.48	17.81	16.86	18.14	18.50	19.68	21.01	20.06	21.34	21.70
	4H	17.15	18.40	17.55	18.75	19.13	19.97	21.22	20.37	21.57	21.95
	6H	17.66	18.81	18.07	19.18	19.57	20.17	21.33	20.59	21.69	22.09
	8H	17.83	18.93	18.26	19.32	19.72	20.23	21.33	20.66	21.72	22.12
	12H	17.95	19.00	18.38	19.38	19.81	20.26	21.31	20.69	21.69	22.12
4H	2H	15.61	16.85	16.01	17.20	17.58	18.72	19.97	19.12	20.32	20.69
	3H	17.48	18.51	17.89	18.91	19.32	20.05	21.08	20.46	21.48	21.89
	4H	18.28	19.21	18.72	19.63	20.07	20.46	21.40	20.90	21.81	22.25
	6H	18.93	19.74	19.38	20.18	20.64	20.79	21.60	21.24	22.04	22.50
	8H	19.15	19.91	19.61	20.35	20.82	20.88	21.64	21.34	22.08	22.55
	12H	19.31	19.99	19.80	20.47	20.94	20.95	21.63	21.44	22.11	22.58
8H	4H	18.63	19.39	19.09	19.83	20.30	20.60	21.35	21.06	21.80	22.27
	6H	19.42	20.04	19.92	20.54	21.01	21.02	21.64	21.51	22.13	22.61
	8H	19.74	20.30	20.25	20.81	21.30	21.17	21.74	21.69	22.25	22.73
	12H	20.00	20.50	20.51	20.99	21.56	21.31	21.81	21.82	22.30	22.87
12H	4H	18.66	19.34	19.14	19.82	20.29	20.60	21.28	21.09	21.76	22.23
	6H	19.48	20.04	20.00	20.55	21.04	21.04	21.60	21.55	22.11	22.60
	8H	19.87	20.36	20.38	20.86	21.42	21.25	21.74	21.76	22.24	22.80