

Scaled data based on original data using
LM-79-2019 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: S124RDR-S1195D927-X4F0-XX-UDD-WVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
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: S124RDR-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

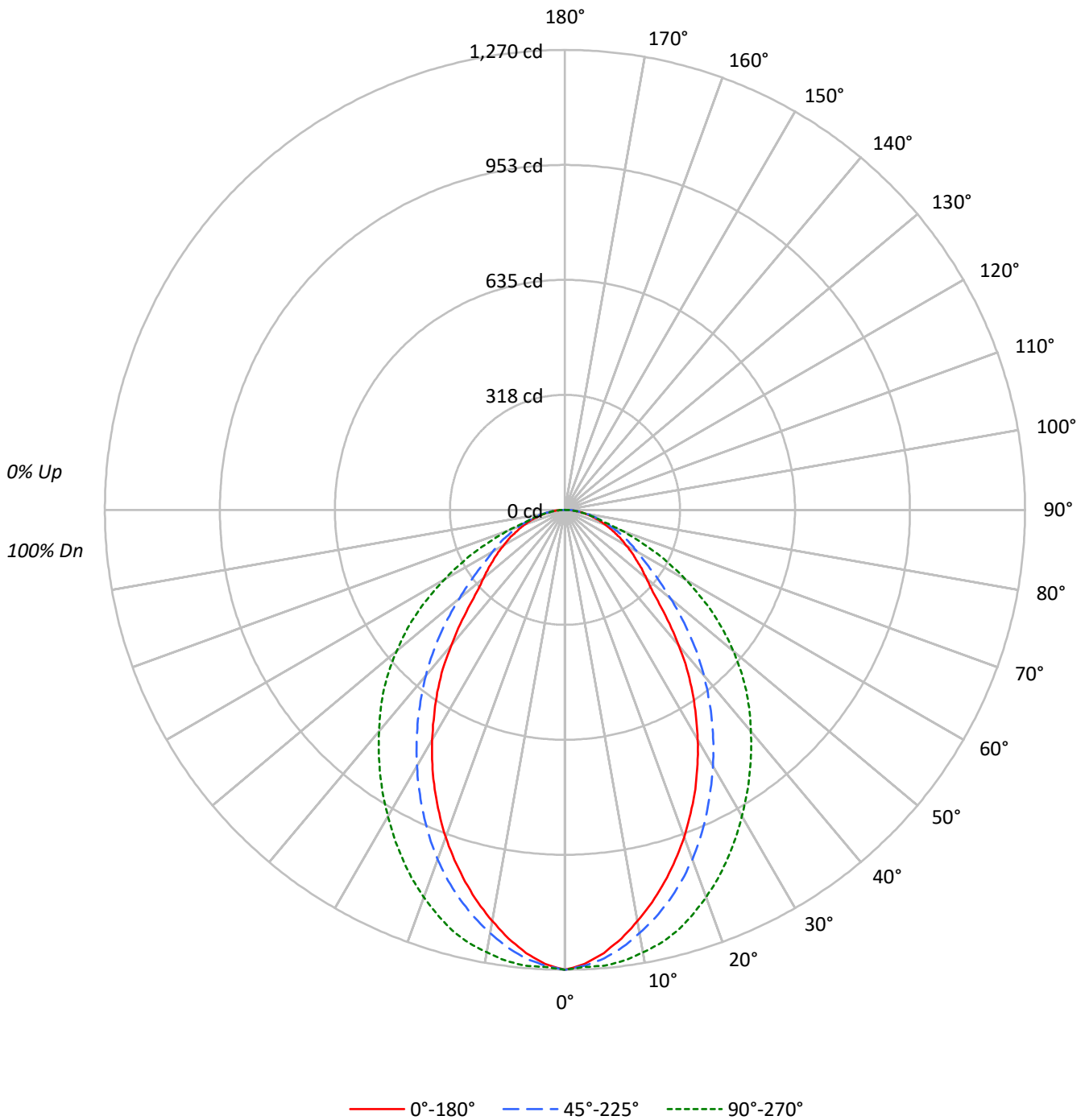
Lumens per Lamp: N/A
Luminaire Lumens: 2330.6 lumens
Efficiency: N/A
Efficacy: 55.8 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 1.15 / 1.11
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
Input Voltage (V): 120
Input Current (Ain): 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

TEST NUMBER: P1060344

CATALOG NUMBER: S124RDR-S1195D927-X4F0-XX-UDD-WVL-W

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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100	
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87			87	
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75			75	
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67	65			65	
4	86	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	57			57	
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	56	52	50			50	
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	57	51	47	45			45	
7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	52	47	42	40			40	
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37			37	
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	33			33	
10	58	45	38	33	56	45	38	33	44	37	33	43	37	32	42	36	32	31			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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CATALOG NUMBER: S124RDR-S1195D927-X4F0-XX-UDD-WVL-W

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

(END OF REPORT)