

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: P1060339

Luminaire Tested: S124RDR-S1195D927-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060339
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-38)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDR-S1195D927-X4F0-XX-UDD-SVL-B
Description: DEFINE 4 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

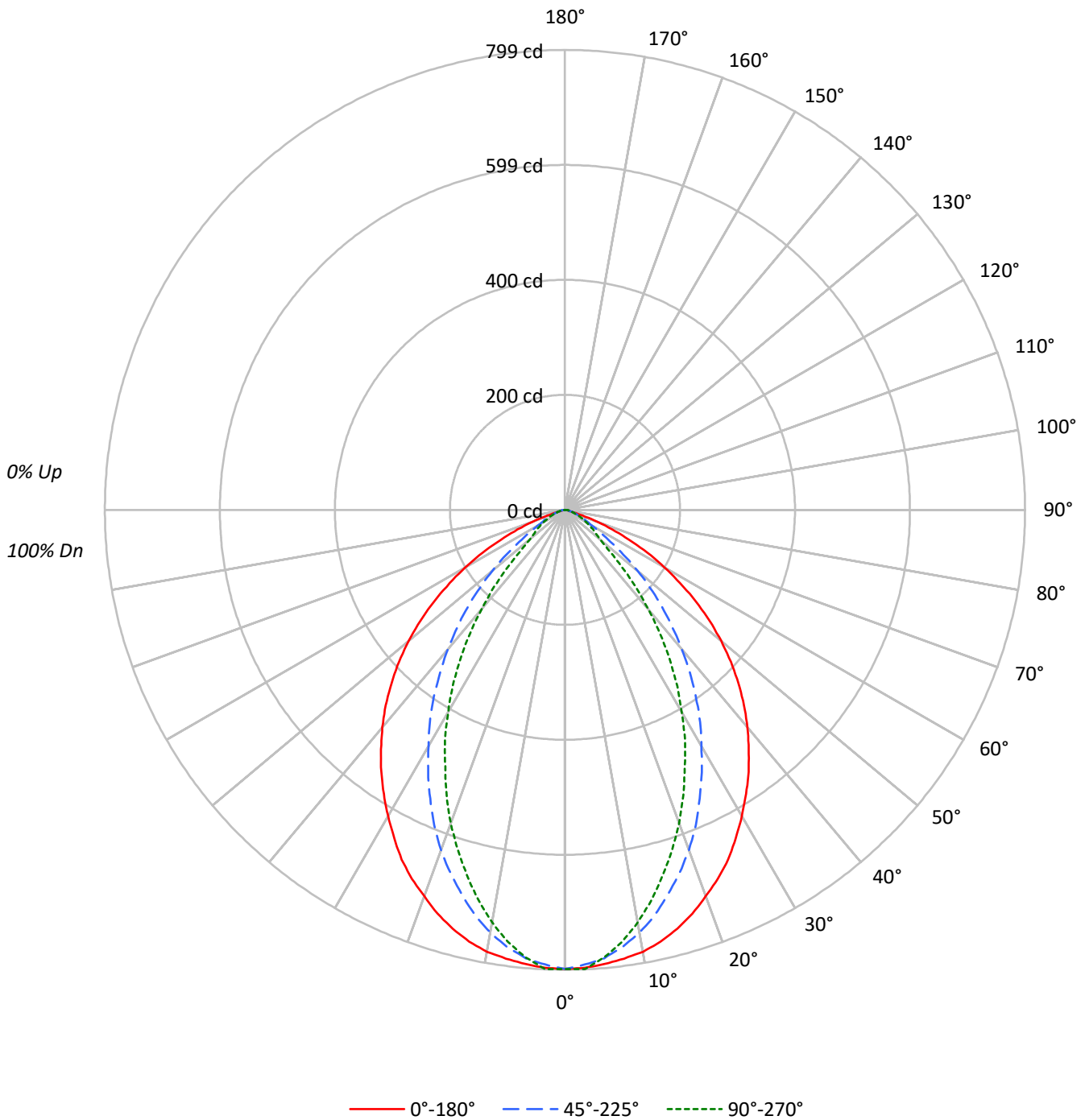
Lumens per Lamp: N/A
Luminaire Lumens: 1175.8 lumens
Efficiency: N/A
Efficacy: 28.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.87 / 1.02
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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: P1060339

CATALOG NUMBER: S124RDR-S1195D927-X4F0-XX-UDD-SVL-B

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				
1	112	108	105	102	109	106	103	101	102	100	97	98	96	94	95	93	92	90				
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80				
3	97	89	82	77	95	87	81	76	84	79	75	82	78	74	79	76	73	71				
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63				
5	84	74	66	61	82	73	66	60	71	65	60	69	63	59	67	62	59	57				
6	79	68	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51				
7	74	62	55	50	72	62	54	49	60	54	49	59	53	49	58	52	48	47				
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	44	43				
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39				
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6867	6867	6867
5°	6845	6758	6748
10°	6816	6521	6364
15°	6719	6168	5858
20°	6547	5764	5311
25°	6372	5261	4675
30°	6109	4713	4032
35°	5845	4168	3329
40°	5543	3548	2525
45°	5184	2900	1696
50°	4740	2197	1053
55°	4165	1450	893
60°	3443	890	735
65°	2494	687	595
70°	1357	509	453
75°	299	373	413
80°	223	278	332
85°	217	217	336

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5184 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.9	6.3
10°-20°	196.2	16.7
20°-30°	260.0	22.1
30°-40°	258.0	21.9
40°-50°	198.5	16.9
50°-60°	118.3	10.1
60°-70°	53.8	4.6
70°-80°	13.9	1.2
80°-90°	3.1	0.3
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°	530.1	45.1
0°-40°	788.1	67.0
0°-60°	1105.0	94.0
0°-90°	1175.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1175.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	798	798	798	798	798	
5°	792	793	782	782	781	75
15°	754	735	692	668	657	212
25°	671	622	554	508	492	308
35°	556	486	396	336	317	347
45°	426	343	238	166	139	328
55°	277	198	97	61	60	247
65°	122	73	34	29	29	123
75°	9	11	11	12	12	19
85°	2	2	2	3	3	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	797.5	797.5	797.5	797.5	797.5
2.5°	796.4	797.5	790.7	796.4	798.6
5°	791.9	793.0	781.8	781.8	780.6
7.5°	786.3	784.0	766.0	759.3	757.1
10°	779.5	771.7	745.8	732.3	727.8
12.5°	768.3	755.9	721.1	702.0	694.2
15°	753.7	734.6	691.9	668.3	657.1
17.5°	735.7	712.1	661.6	631.3	618.9
20°	714.4	682.9	629.0	590.8	579.6
22.5°	694.2	654.8	593.1	549.3	536.9
25°	670.6	622.3	553.7	507.7	492.0
27.5°	642.5	590.8	514.4	467.3	451.5
30°	614.4	557.1	474.0	424.6	405.5
32.5°	585.2	522.3	436.9	380.8	362.8
35°	556.0	486.4	396.5	335.8	316.7
37.5°	524.5	450.4	356.1	293.2	271.8
40°	493.1	415.6	315.6	251.6	224.6
42.5°	460.5	379.6	276.3	208.9	182.0
45°	425.7	342.6	238.1	166.2	139.3
47.5°	390.9	307.8	199.9	124.7	100.0
50°	353.8	270.7	164.0	91.0	78.6
52.5°	316.7	234.8	128.0	70.8	67.4
55°	277.4	197.7	96.6	60.7	59.5
57.5°	237.0	164.0	69.6	52.8	50.5
60°	199.9	132.5	51.7	44.9	42.7
62.5°	161.7	100.0	42.7	37.1	34.8
65°	122.4	73.0	33.7	29.2	29.2
67.5°	88.7	49.4	27.0	23.6	22.5
70°	53.9	30.3	20.2	19.1	18.0
72.5°	27.0	18.0	15.7	14.6	14.6
75°	9.0	11.2	11.2	12.4	12.4
77.5°	6.7	7.9	7.9	9.0	9.0
80°	4.5	5.6	5.6	6.7	6.7
82.5°	3.4	3.4	4.5	4.5	5.6
85°	2.2	2.2	2.2	3.4	3.4
87.5°	1.1	1.1	1.1	2.2	2.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)