

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: P1060348

Luminaire Tested: S124RDR-S1195D930-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060348
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-S1195D930-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

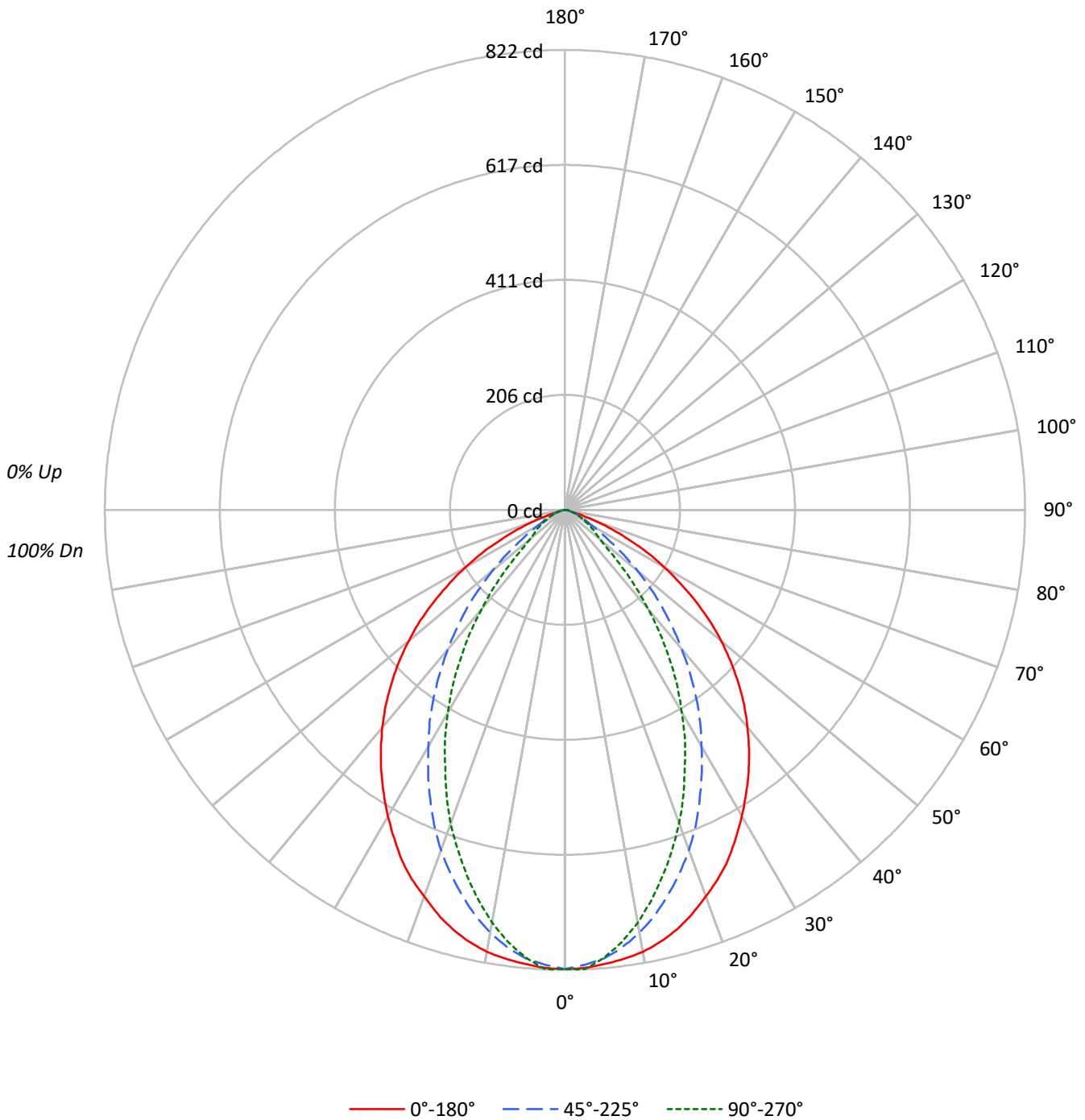
Lumens per Lamp: N/A
Luminaire Lumens: 1210.1 lumens
Efficiency: N/A
Efficacy: 29.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.87 / 1.02
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7068	7068	7068
5°	7045	6955	6945
10°	7015	6712	6550
15°	6915	6348	6029
20°	6737	5933	5466
25°	6557	5415	4811
30°	6287	4850	4149
35°	6015	4290	3427
40°	5705	3651	2599
45°	5335	2985	1745
50°	4878	2261	1084
55°	4286	1492	920
60°	3544	916	756
65°	2567	707	613
70°	1397	524	466
75°	306	386	423
80°	228	288	342
85°	227	227	346

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5335 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.0	6.3
10°-20°	202.0	16.7
20°-30°	267.6	22.1
30°-40°	265.5	21.9
40°-50°	204.3	16.9
50°-60°	121.8	10.1
60°-70°	55.4	4.6
70°-80°	14.3	1.2
80°-90°	3.2	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°	545.6	45.1
0°-40°	811.1	67.0
0°-60°	1137.2	94.0
0°-90°	1210.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1210.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	821	821	821	821	821	
5°	815	816	805	805	803	77
15°	776	756	712	688	676	218
25°	690	640	570	522	506	317
35°	572	500	408	346	326	357
45°	438	353	245	171	143	337
55°	286	204	99	62	61	254
65°	126	75	35	30	30	127
75°	9	12	12	13	13	19
85°	2	2	2	4	4	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	820.8	820.8	820.8	820.8	820.8
2.5°	819.6	820.8	813.8	819.6	821.9
5°	815.0	816.1	804.6	804.6	803.4
7.5°	809.2	806.9	788.4	781.5	779.1
10°	802.3	794.2	767.6	753.7	749.1
12.5°	790.7	778.0	742.2	722.5	714.4
15°	775.7	756.0	712.1	687.8	676.3
17.5°	757.2	732.9	680.9	649.7	637.0
20°	735.2	702.8	647.4	608.1	596.5
22.5°	714.4	673.9	610.4	565.3	552.6
25°	690.1	640.4	569.9	522.5	506.3
27.5°	661.2	608.1	529.4	480.9	464.7
30°	632.3	573.4	487.8	437.0	417.3
32.5°	602.3	537.5	449.7	391.9	373.4
35°	572.2	500.5	408.1	345.6	326.0
37.5°	539.9	463.6	366.5	301.7	279.8
40°	507.5	427.7	324.8	258.9	231.2
42.5°	474.0	390.7	284.4	215.0	187.3
45°	438.1	352.6	245.1	171.1	143.3
47.5°	402.3	316.7	205.8	128.3	102.9
50°	364.1	278.6	168.8	93.6	80.9
52.5°	326.0	241.6	131.8	72.8	69.4
55°	285.5	203.5	99.4	62.4	61.3
57.5°	243.9	168.8	71.7	54.3	52.0
60°	205.8	136.4	53.2	46.2	43.9
62.5°	166.5	102.9	43.9	38.1	35.8
65°	126.0	75.1	34.7	30.1	30.1
67.5°	91.3	50.9	27.7	24.3	23.1
70°	55.5	31.2	20.8	19.7	18.5
72.5°	27.7	18.5	16.2	15.0	15.0
75°	9.2	11.6	11.6	12.7	12.7
77.5°	6.9	8.1	8.1	9.2	9.2
80°	4.6	5.8	5.8	6.9	6.9
82.5°	3.5	3.5	4.6	4.6	5.8
85°	2.3	2.3	2.3	3.5	3.5
87.5°	1.2	1.2	1.2	2.3	2.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)