

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: P1060395

Luminaire Tested: S124RDR-S350D835-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060395
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: S124RDR-S350D835-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: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

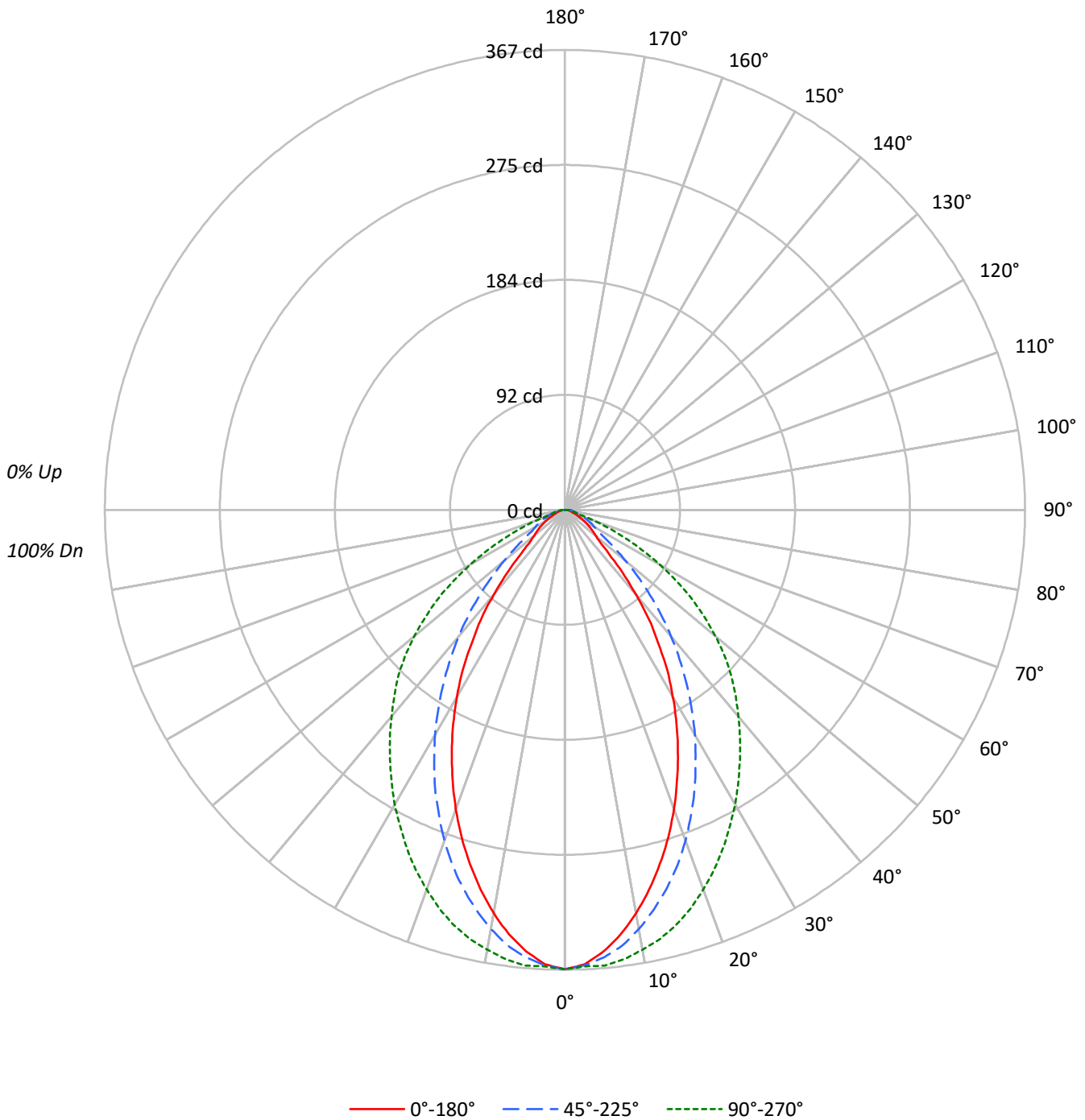
Lumens per Lamp: N/A
Luminaire Lumens: 518.9 lumens
Efficiency: N/A
Efficacy: 41.5 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 12.5
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	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	76	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°	3157	3157	3157
5°	3059	3098	3155
10°	2858	2969	3116
15°	2608	2790	3057
20°	2331	2575	2954
25°	2028	2328	2833
30°	1711	2061	2701
35°	1360	1774	2558
40°	990	1478	2418
45°	599	1168	2289
50°	429	845	2097
55°	363	572	1851
60°	296	465	1495
65°	234	418	1076
70°	196	350	566
75°	176	326	286
80°	183	327	283
85°	247	484	326

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2289 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.8	6.5
10°-20°	88.5	17.0
20°-30°	114.7	22.1
30°-40°	110.4	21.3
40°-50°	82.2	15.8
50°-60°	50.5	9.7
60°-70°	24.8	4.8
70°-80°	9.7	1.9
80°-90°	4.4	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°	236.9	45.7
0°-40°	347.3	66.9
0°-60°	480.0	92.5
0°-90°	518.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	518.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	367	367	367	367	367	
5°	354	359	358	362	365	33
15°	292	302	313	332	343	82
25°	213	225	245	276	298	98
35°	129	142	169	211	243	81
45°	49	61	96	148	188	41
55°	24	25	38	87	123	22
65°	12	12	20	33	53	12
75°	5	9	10	9	9	6
85°	2	4	5	5	3	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	366.6	366.6	366.6	366.6	366.6
2.5°	362.9	367.0	363.8	364.2	364.6
5°	353.9	359.3	358.4	361.7	365.0
7.5°	341.6	347.8	350.7	357.2	361.7
10°	326.9	333.9	339.6	350.3	356.4
12.5°	310.5	318.7	326.9	341.2	350.7
15°	292.5	301.9	313.0	331.8	342.9
17.5°	274.1	283.5	297.8	319.5	333.5
20°	254.4	264.6	281.0	305.2	322.4
22.5°	233.9	245.0	263.0	290.4	310.9
25°	213.4	224.9	245.0	275.7	298.2
27.5°	192.9	204.0	225.7	260.1	284.7
30°	172.1	183.5	207.3	243.3	271.6
32.5°	152.0	162.6	188.0	227.4	257.3
35°	129.4	141.7	168.8	211.0	243.3
37.5°	110.2	121.3	150.3	194.6	229.4
40°	88.1	100.4	131.5	178.6	215.1
42.5°	67.6	79.9	113.5	162.6	201.5
45°	49.2	61.0	95.9	147.9	188.0
47.5°	37.3	44.2	78.7	133.5	172.9
50°	32.0	34.0	63.1	118.0	156.5
52.5°	28.3	29.1	49.2	102.4	140.1
55°	24.2	25.0	38.1	86.8	123.3
57.5°	20.5	20.9	30.7	72.1	105.3
60°	17.2	17.6	27.0	57.8	86.8
62.5°	14.3	14.7	24.2	44.7	69.2
65°	11.5	12.3	20.5	32.8	52.8
67.5°	9.4	11.1	17.2	22.9	36.9
70°	7.8	10.7	13.9	16.0	22.5
72.5°	6.6	9.8	11.9	11.5	11.1
75°	5.3	9.4	9.8	9.0	8.6
77.5°	4.5	8.2	8.2	7.4	7.0
80°	3.7	6.6	6.6	6.6	5.7
82.5°	3.3	5.3	5.7	5.7	4.5
85°	2.5	4.5	4.9	4.9	3.3
87.5°	1.6	4.1	4.5	4.1	2.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)