

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: P1060474

Luminaire Tested: S124RDR-S575D835-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060474
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-S575D835-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: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

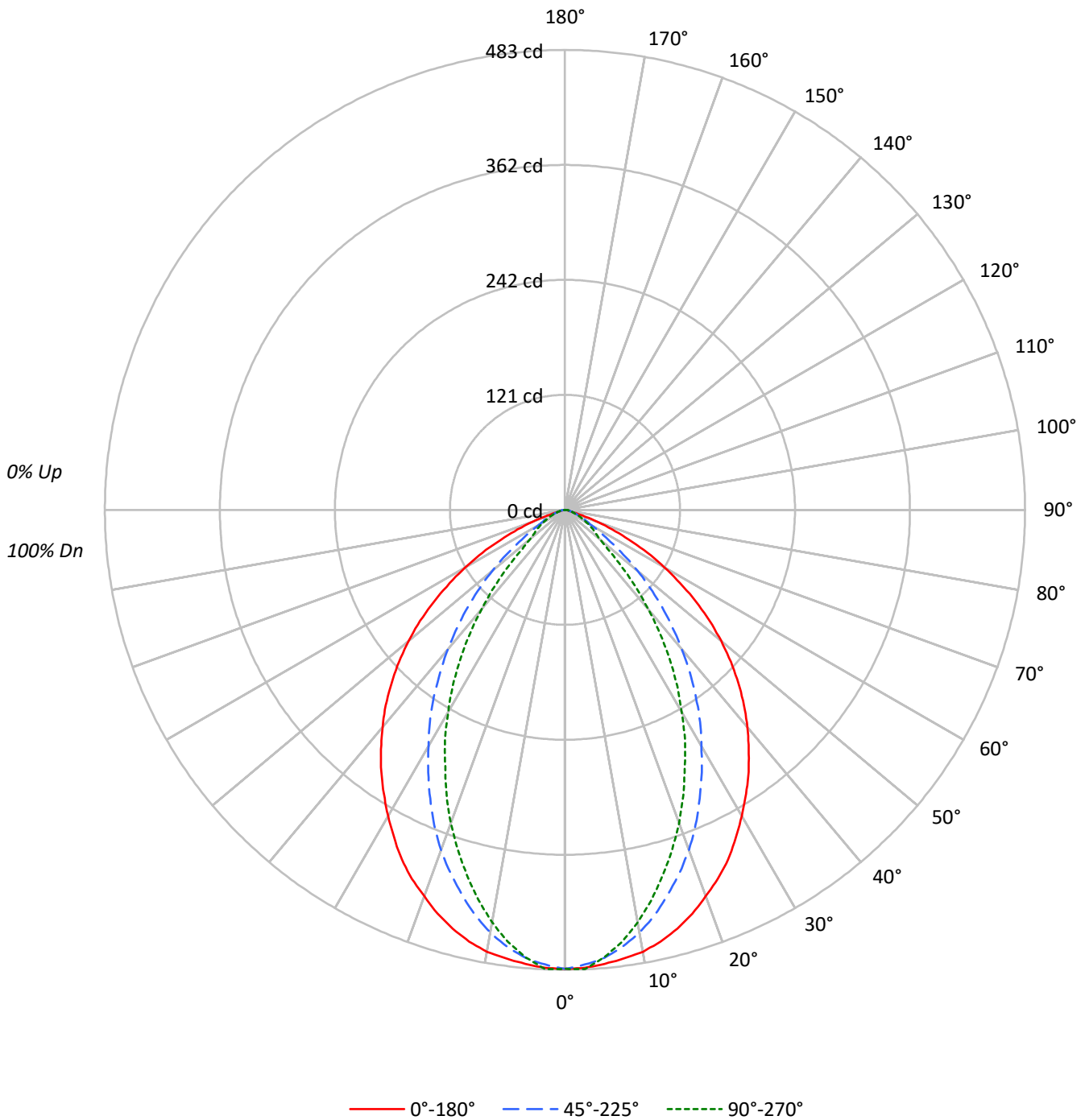
Lumens per Lamp: N/A
Luminaire Lumens: 710.7 lumens
Efficiency: N/A
Efficacy: 36.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.87 / 1.02
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 19.6
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	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°	4151	4151	4151
5°	4137	4084	4078
10°	4120	3942	3846
15°	4062	3728	3541
20°	3957	3484	3210
25°	3851	3180	2826
30°	3693	2849	2437
35°	3533	2520	2013
40°	3350	2145	1527
45°	3133	1752	1025
50°	2866	1328	636
55°	2518	877	540
60°	2080	537	444
65°	1508	416	361
70°	821	307	274
75°	180	226	250
80°	134	169	203
85°	138	138	198

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3133 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.7	6.3
10°-20°	118.6	16.7
20°-30°	157.1	22.1
30°-40°	156.0	21.9
40°-50°	120.0	16.9
50°-60°	71.5	10.1
60°-70°	32.5	4.6
70°-80°	8.4	1.2
80°-90°	1.9	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°	320.4	45.1
0°-40°	476.4	67.0
0°-60°	667.9	94.0
0°-90°	710.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	710.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	482	482	482	482	482	
5°	479	479	472	472	472	45
15°	456	444	418	404	397	128
25°	405	376	335	307	297	186
35°	336	294	240	203	192	210
45°	257	207	144	100	84	198
55°	168	120	58	37	36	149
65°	74	44	20	18	18	74
75°	5	7	7	8	8	11
85°	1	1	1	2	2	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	482.0	482.0	482.0	482.0	482.0
2.5°	481.4	482.0	478.0	481.4	482.7
5°	478.6	479.3	472.5	472.5	471.8
7.5°	475.2	473.9	463.0	459.0	457.6
10°	471.2	466.4	450.8	442.7	439.9
12.5°	464.4	456.9	435.9	424.3	419.6
15°	455.6	444.0	418.2	404.0	397.2
17.5°	444.7	430.4	399.9	381.6	374.1
20°	431.8	412.8	380.2	357.1	350.3
22.5°	419.6	395.8	358.5	332.0	324.5
25°	405.3	376.1	334.7	306.9	297.4
27.5°	388.3	357.1	310.9	282.4	272.9
30°	371.4	336.7	286.5	256.6	245.1
32.5°	353.7	315.7	264.1	230.2	219.3
35°	336.1	294.0	239.7	203.0	191.5
37.5°	317.1	272.2	215.2	177.2	164.3
40°	298.0	251.2	190.8	152.1	135.8
42.5°	278.4	229.5	167.0	126.3	110.0
45°	257.3	207.1	143.9	100.5	84.2
47.5°	236.3	186.0	120.8	75.4	60.4
50°	213.9	163.6	99.1	55.0	47.5
52.5°	191.5	141.9	77.4	42.8	40.7
55°	167.7	119.5	58.4	36.7	36.0
57.5°	143.3	99.1	42.1	31.9	30.6
60°	120.8	80.1	31.2	27.2	25.8
62.5°	97.8	60.4	25.8	22.4	21.0
65°	74.0	44.1	20.4	17.7	17.7
67.5°	53.6	29.9	16.3	14.3	13.6
70°	32.6	18.3	12.2	11.5	10.9
72.5°	16.3	10.9	9.5	8.8	8.8
75°	5.4	6.8	6.8	7.5	7.5
77.5°	4.1	4.8	4.8	5.4	5.4
80°	2.7	3.4	3.4	4.1	4.1
82.5°	2.0	2.0	2.7	2.7	3.4
85°	1.4	1.4	1.4	2.0	2.0
87.5°	0.7	0.7	0.7	1.4	1.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)