

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: P1061605

Luminaire Tested: S125RDR-S375D835-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061605
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-48)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S375D835-X4F0-XX-UDD-BVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

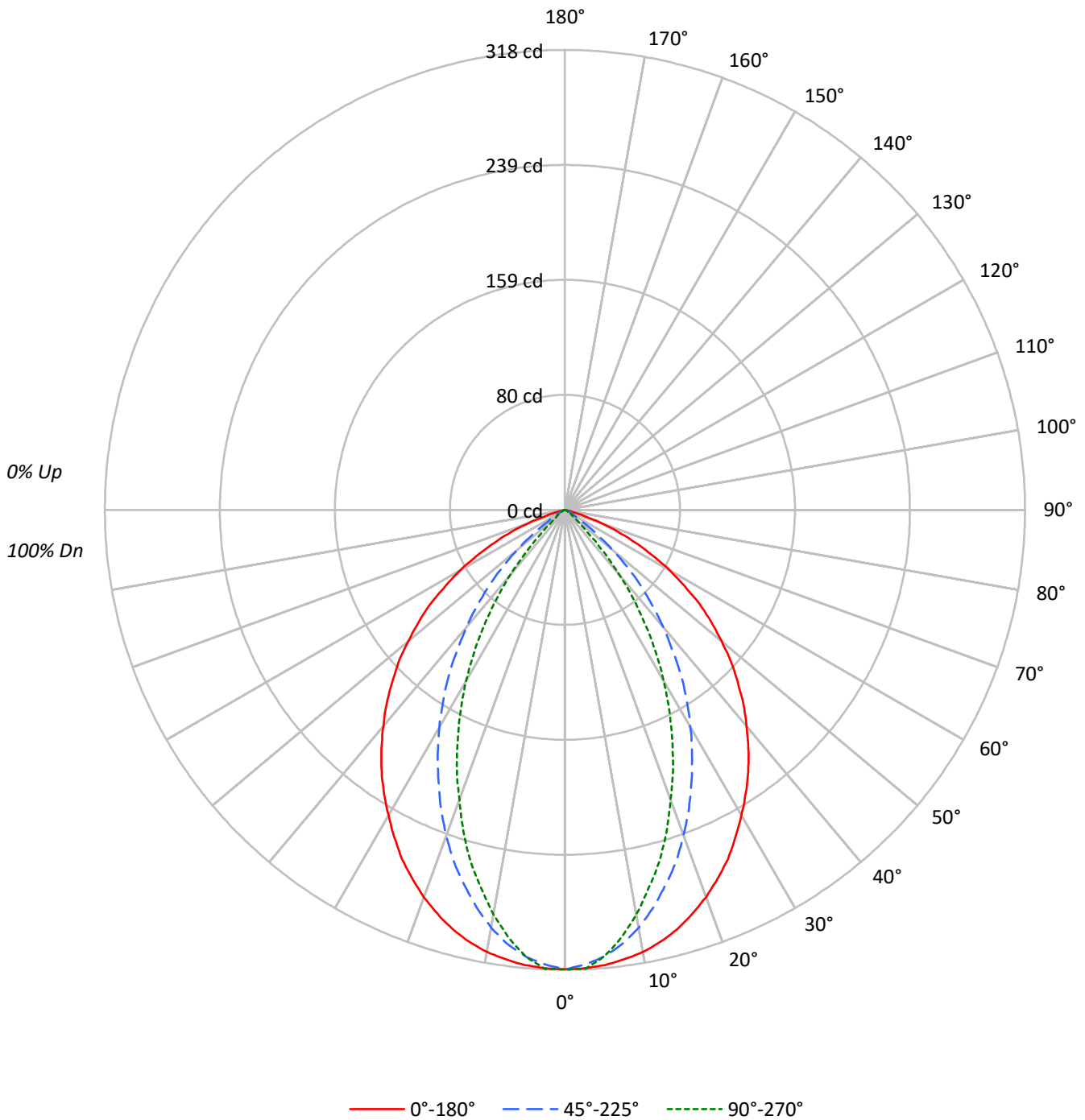
Lumens per Lamp: N/A
Luminaire Lumens: 410.4 lumens
Efficiency: N/A
Efficacy: 32.8 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.81 / 0.97
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73
4	92	83	76	71	90	82	75	70	79	74	70	77	72	69	75	71	68	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60
6	81	70	63	58	79	69	62	57	67	61	57	66	61	57	65	60	56	54
7	76	65	58	53	74	64	57	52	63	56	52	61	56	52	60	55	51	50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2187	2187	2187
5°	2184	2143	2143
10°	2171	2051	1986
15°	2139	1915	1796
20°	2088	1756	1563
25°	2025	1573	1331
30°	1939	1379	1086
35°	1857	1177	814
40°	1755	949	528
45°	1645	719	229
50°	1512	457	86
55°	1364	202	60
60°	1154	87	40
65°	873	55	21
70°	531	26	8
75°	112	11	11
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1645 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.3	7.1
10°-20°	76.3	18.6
20°-30°	98.0	23.9
30°-40°	92.3	22.5
40°-50°	64.5	15.7
50°-60°	34.5	8.4
60°-70°	13.7	3.4
70°-80°	1.8	0.4
80°-90°	0.0	0.0
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°	203.6	49.6
0°-40°	295.9	72.1
0°-60°	394.9	96.2
0°-90°	410.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	410.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	318	318	318	318	318	
5°	316	315	310	311	310	30
15°	300	290	269	256	252	84
25°	266	243	207	184	175	122
35°	221	186	140	108	97	138
45°	169	127	74	36	24	130
55°	114	70	17	6	5	101
65°	54	21	3	2	1	53
75°	4	1	0	0	0	8
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	317.7	317.7	317.7	317.7	317.7
2.5°	317.2	317.7	314.7	317.2	317.7
5°	316.0	315.2	310.1	311.0	310.1
7.5°	313.5	311.4	303.0	300.1	298.4
10°	310.5	305.9	293.4	287.1	284.1
12.5°	305.9	299.2	281.6	272.0	267.8
15°	300.1	290.4	268.6	256.1	251.9
17.5°	292.9	280.4	255.2	239.7	233.4
20°	285.0	268.2	239.7	221.3	213.3
22.5°	275.8	256.5	223.8	203.3	195.3
25°	266.5	243.1	207.0	184.4	175.2
27.5°	255.2	229.2	190.3	166.0	155.9
30°	243.9	215.4	173.5	147.1	136.6
32.5°	232.6	200.7	156.7	127.4	116.9
35°	220.9	185.7	140.0	108.1	96.8
37.5°	208.3	170.6	122.0	89.7	77.9
40°	195.3	155.9	105.6	71.7	58.7
42.5°	182.7	141.2	89.3	54.1	39.8
45°	168.9	126.6	73.8	35.6	23.5
47.5°	155.9	112.3	57.8	20.5	12.2
50°	141.2	97.6	42.7	10.9	8.0
52.5°	127.4	83.4	28.5	7.1	6.3
55°	113.6	69.6	16.8	5.9	5.0
57.5°	97.6	56.2	9.2	4.6	3.8
60°	83.8	44.0	6.3	3.4	2.9
62.5°	67.9	32.3	4.6	2.5	2.1
65°	53.6	21.4	3.4	1.7	1.3
67.5°	39.8	12.6	2.1	0.8	0.8
70°	26.4	6.7	1.3	0.4	0.4
72.5°	13.8	2.9	0.8	0.4	0.4
75°	4.2	1.3	0.4	0.4	0.4
77.5°	0.0	0.4	0.0	0.0	0.4
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)