

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 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: S125RDRP-S375D835-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
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: S125RDRP-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

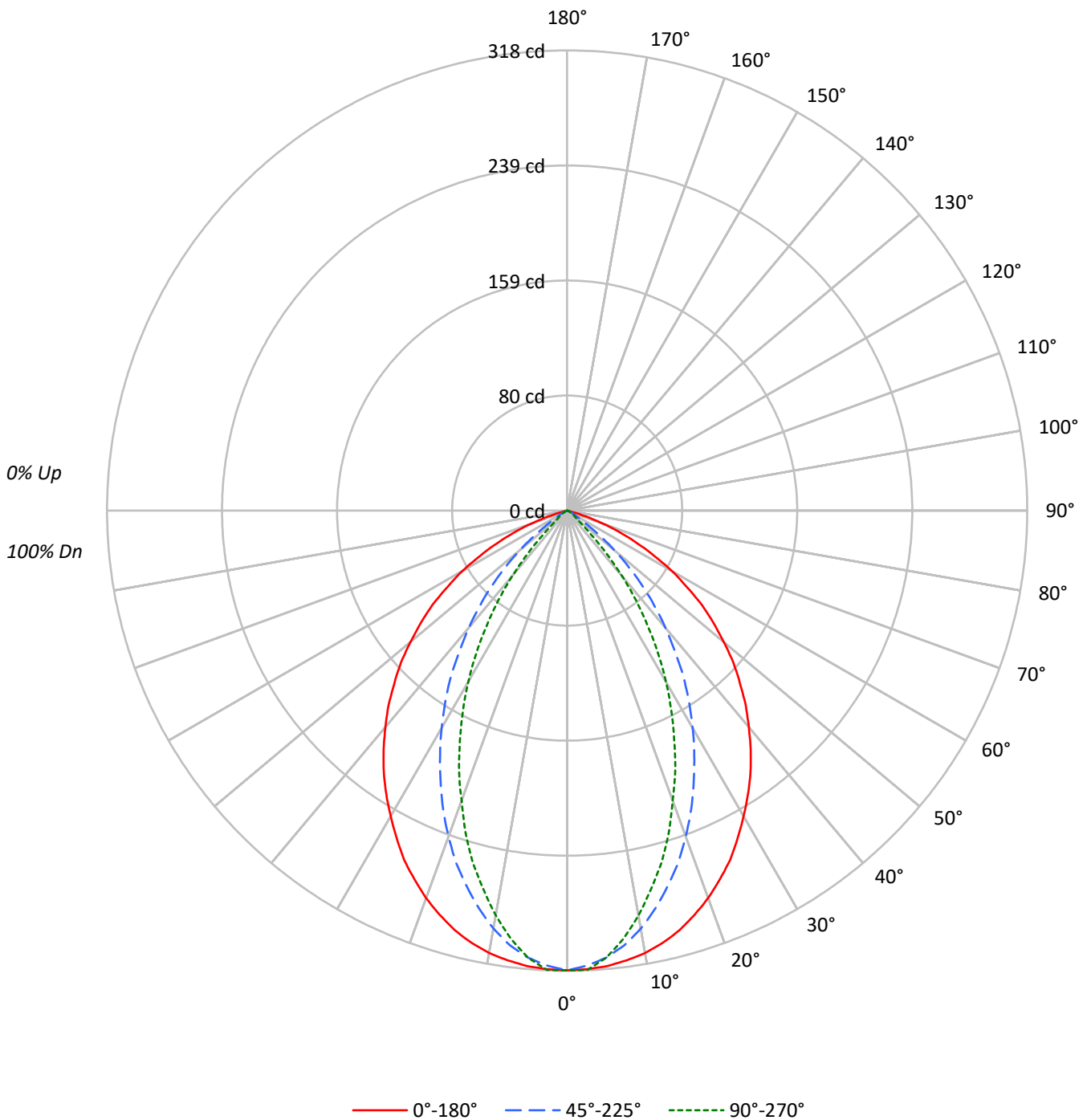
Lumens per Lamp: N/A
Luminaire Lumens: 410.4 lumens
Efficiency: N/A
Efficacy: 32.8 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.81 / 0.97
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	11.67	12.93	12.03	13.24	13.56	0.00	0.00	0.00	0.00	0.00
	3H	12.25	13.36	12.63	13.69	14.06	0.00	0.00	0.00	0.00	0.00
	4H	12.21	13.25	12.62	13.60	13.98	0.00	0.00	0.00	0.00	0.00
	6H	12.13	13.07	12.54	13.44	13.84	0.00	0.00	0.00	0.00	0.00
	8H	12.08	12.97	12.51	13.37	13.77	0.00	0.00	0.00	0.00	0.00
	12H	12.04	12.89	12.47	13.27	13.70	0.00	0.00	0.00	0.00	0.00
4H	2H	11.44	12.47	11.84	12.82	13.21	0.00	0.00	0.00	0.00	0.00
	3H	12.03	12.87	12.44	13.27	13.67	0.00	0.00	0.00	0.00	0.00
	4H	11.98	12.72	12.42	13.14	13.59	0.00	0.00	0.00	0.00	0.00
	6H	11.89	12.53	12.36	12.98	13.45	0.00	0.00	0.00	0.00	0.00
	8H	11.83	12.43	12.30	12.87	13.35	0.00	0.00	0.00	0.00	0.00
	12H	11.78	12.30	12.27	12.79	13.26	0.00	0.00	0.00	0.00	0.00
8H	4H	11.83	12.43	12.30	12.87	13.35	0.00	0.00	0.00	0.00	0.00
	6H	11.73	12.21	12.23	12.71	13.19	0.00	0.00	0.00	0.00	0.00
	8H	11.66	12.09	12.18	12.61	13.10	0.00	0.00	0.00	0.00	0.00
	12H	11.61	11.99	12.13	12.49	13.06	0.00	0.00	0.00	0.00	0.00
12H	4H	11.78	12.30	12.27	12.79	13.26	0.00	0.00	0.00	0.00	0.00
	6H	11.66	12.09	12.18	12.61	13.10	0.00	0.00	0.00	0.00	0.00
	8H	11.61	11.99	12.13	12.49	13.06	0.00	0.00	0.00	0.00	0.00