

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: P1061597

Luminaire Tested: S125RDRP-S375D830-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061597
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-87)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S375D830-X4F0-XX-UDD-BVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

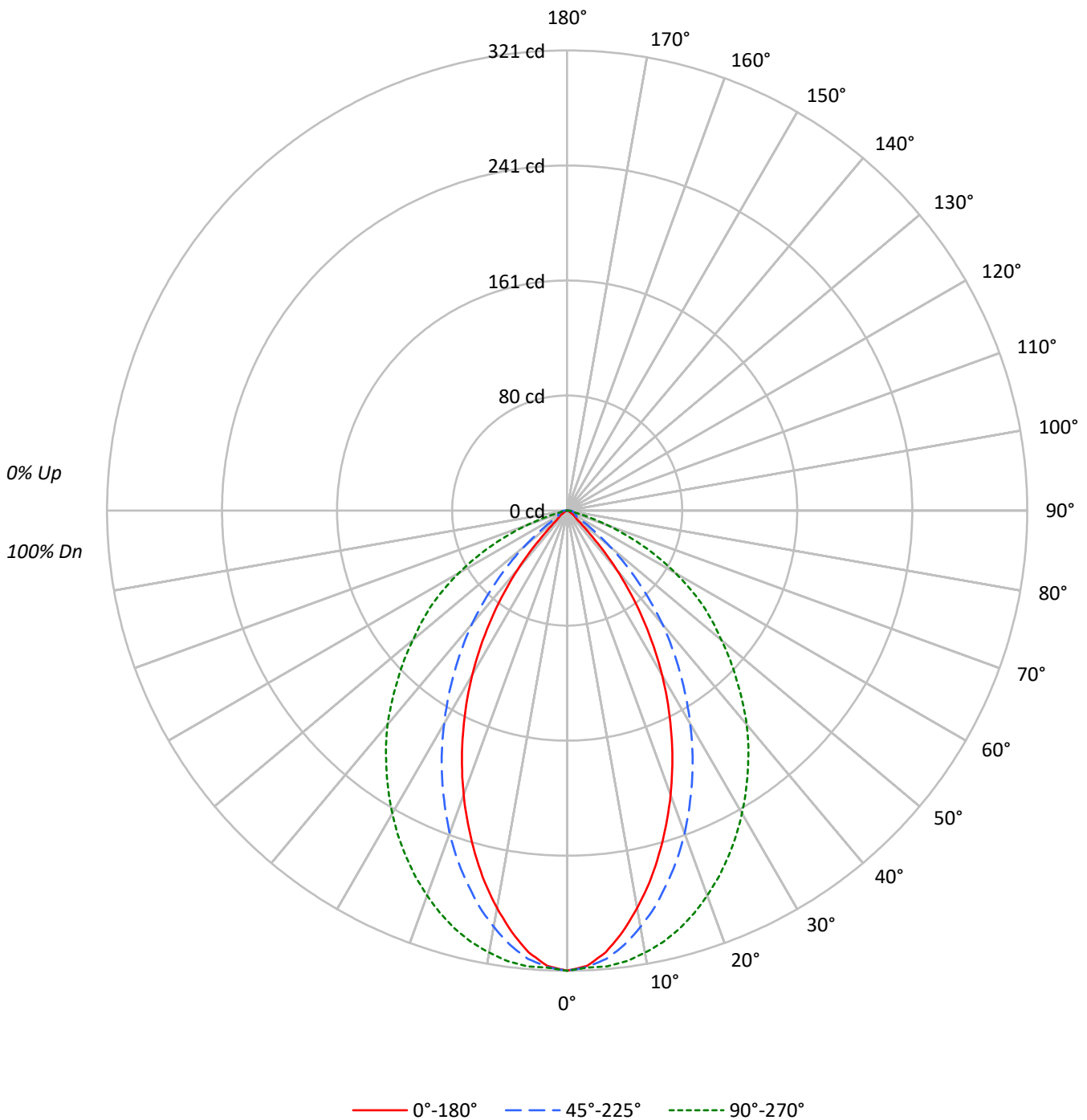
Lumens per Lamp: N/A
Luminaire Lumens: 412.9 lumens
Efficiency: N/A
Efficacy: 33.0 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 12.5
Input Voltage (V): 120
Input Current (A_{in}): 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	98	98	96	95	95	93	92	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49
8	71	60	52	47	69	59	52	47	58	52	47	57	51	47	55	50	47	45
9	67	55	48	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42
10	63	52	45	41	62	51	45	40	50	44	40	50	44	40	49	44	40	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2210	2210	2210
5°	2137	2170	2205
10°	1968	2062	2189
15°	1767	1919	2153
20°	1547	1756	2094
25°	1307	1568	2022
30°	1053	1364	1939
35°	774	1150	1847
40°	484	928	1752
45°	181	678	1628
50°	85	423	1504
55°	61	175	1390
60°	44	92	1204
65°	26	109	953
70°	24	127	604
75°	32	125	189
80°	48	159	143
85°	95	253	190

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1628 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.4	7.1
10°-20°	76.2	18.5
20°-30°	97.1	23.5
30°-40°	90.4	21.9
40°-50°	61.9	15.0
50°-60°	34.1	8.3
60°-70°	16.1	3.9
70°-80°	5.1	1.2
80°-90°	2.6	0.6
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°	202.7	49.1
0°-40°	293.1	71.0
0°-60°	389.1	94.2
0°-90°	412.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	412.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	321	321	321	321	321	
5°	309	313	314	316	319	29
15°	248	256	269	289	302	69
25°	172	183	206	240	266	79
35°	92	105	137	182	220	57
45°	19	31	70	123	167	18
55°	5	6	15	69	116	5
65°	2	2	7	25	58	2
75°	1	2	5	5	7	1
85°	1	3	3	3	2	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	321.0	321.0	321.0	321.0	321.0
2.5°	317.9	321.0	318.7	318.7	319.1
5°	309.2	313.1	313.9	316.3	319.1
7.5°	296.5	301.7	305.6	312.3	317.1
10°	281.5	287.8	294.9	306.0	313.1
12.5°	265.7	272.4	283.1	298.5	308.4
15°	247.9	255.8	269.2	289.4	302.1
17.5°	229.7	238.4	255.0	278.7	294.5
20°	211.1	220.2	239.6	266.1	285.8
22.5°	191.8	201.6	223.0	253.0	276.4
25°	172.0	182.7	206.4	239.6	266.1
27.5°	152.2	163.3	189.4	225.8	255.4
30°	132.4	143.9	171.6	211.5	243.9
32.5°	112.3	124.9	154.2	197.3	232.1
35°	92.1	105.2	136.8	181.9	219.8
37.5°	72.4	85.8	119.8	167.2	207.6
40°	53.8	67.2	103.2	152.6	194.9
42.5°	34.8	49.0	85.8	137.6	181.1
45°	18.6	31.2	69.6	123.4	167.2
47.5°	9.9	16.6	54.2	109.1	154.2
50°	7.9	9.1	39.5	94.9	140.4
52.5°	6.3	7.1	25.3	80.3	128.1
55°	5.1	5.9	14.6	68.8	115.8
57.5°	4.0	4.7	8.3	57.3	101.6
60°	3.2	3.6	6.7	45.9	87.4
62.5°	2.0	2.8	6.7	35.6	73.1
65°	1.6	2.0	6.7	25.3	58.5
67.5°	1.6	1.6	6.7	16.6	43.9
70°	1.2	1.2	6.3	10.7	30.0
72.5°	1.2	1.2	5.5	7.1	17.4
75°	1.2	2.0	4.7	5.1	7.1
77.5°	1.2	3.2	4.3	4.3	4.0
80°	1.2	3.2	4.0	3.6	3.6
82.5°	1.2	3.2	3.2	3.2	2.8
85°	1.2	2.8	3.2	2.8	2.4
87.5°	1.2	2.8	2.8	2.8	1.6
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	0.00	0.00	0.00	0.00	0.00	11.80	13.08	12.16	13.40	13.71
	3H	0.00	0.00	0.00	0.00	0.00	12.59	13.72	12.97	14.05	14.42
	4H	0.00	0.00	0.00	0.00	0.00	12.61	13.67	13.01	14.02	14.40
	6H	0.00	0.00	0.00	0.00	0.00	12.57	13.54	12.98	13.91	14.30
	8H	0.00	0.00	0.00	0.00	0.00	12.55	13.46	12.98	13.86	14.26
	12H	0.00	0.00	0.00	0.00	0.00	12.53	13.41	12.96	13.79	14.22
4H	2H	0.00	0.00	0.00	0.00	0.00	11.58	12.64	11.98	12.99	13.37
	3H	0.00	0.00	0.00	0.00	0.00	12.41	13.27	12.82	13.68	14.08
	4H	0.00	0.00	0.00	0.00	0.00	12.44	13.21	12.88	13.63	14.08
	6H	0.00	0.00	0.00	0.00	0.16	12.43	13.10	12.90	13.54	14.01
	8H	0.00	0.00	0.00	0.40	0.87	12.42	13.04	12.89	13.48	13.96
	12H	0.08	0.63	0.57	1.11	1.58	12.42	12.97	12.91	13.45	13.92
8H	4H	0.00	0.00	0.00	0.14	0.62	12.33	12.95	12.80	13.40	13.87
	6H	0.86	1.37	1.36	1.86	2.35	12.33	12.84	12.83	13.33	13.82
	8H	1.83	2.28	2.35	2.80	3.29	12.34	12.79	12.86	13.31	13.80
	12H	2.77	3.17	3.29	3.67	4.24	12.39	12.79	12.90	13.28	13.86
12H	4H	0.00	0.00	0.00	0.42	0.89	12.29	12.83	12.77	13.32	13.79
	6H	1.32	1.78	1.85	2.30	2.79	12.29	12.74	12.81	13.26	13.75
	8H	2.47	2.87	2.99	3.37	3.94	12.33	12.73	12.84	13.22	13.80