

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: P1061615

Luminaire Tested: S125RDRP-S375D840-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061615
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-S375D840-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: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

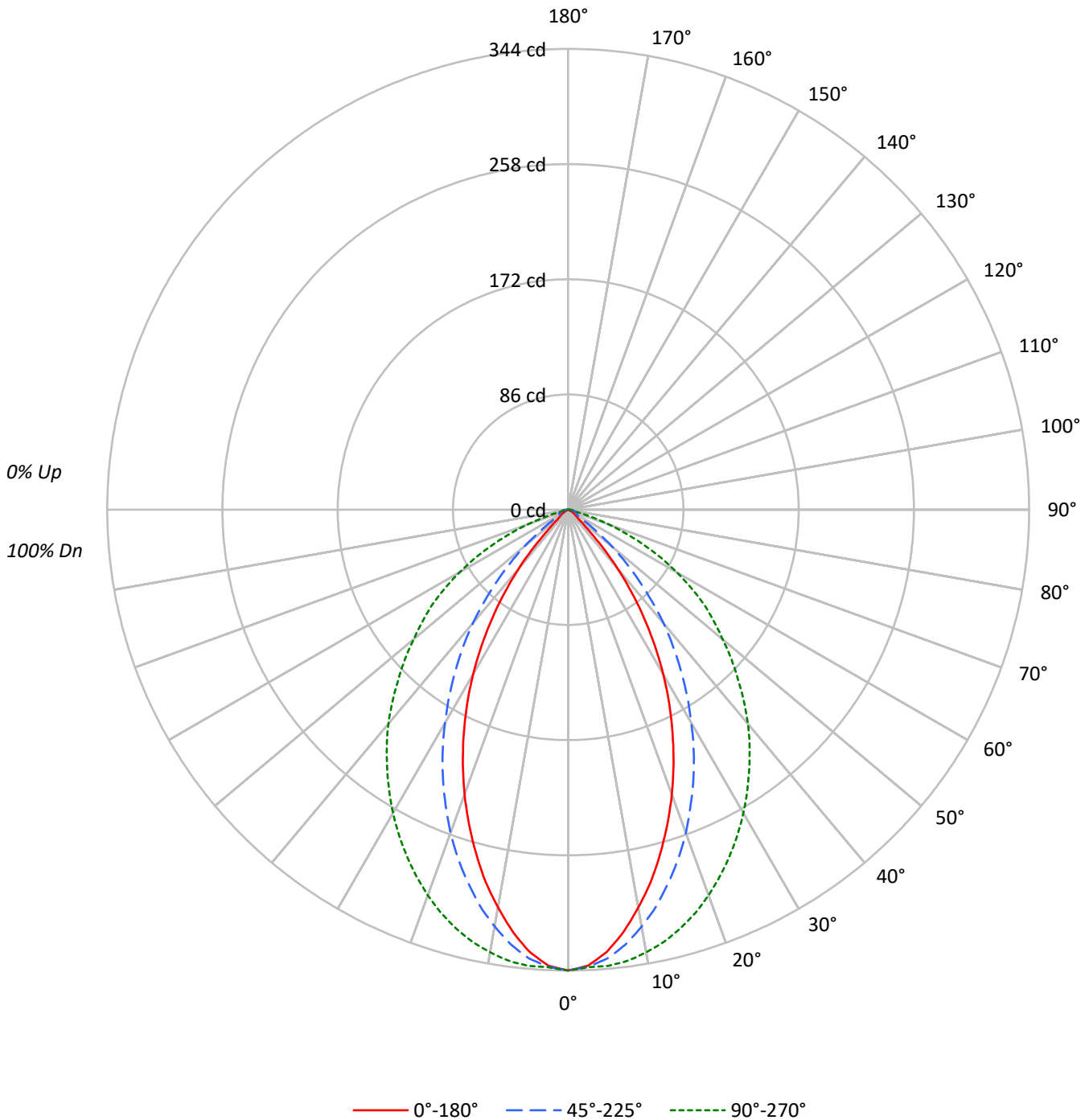
Lumens per Lamp: N/A
Luminaire Lumens: 442.4 lumens
Efficiency: N/A
Efficacy: 35.4 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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°	2369	2369	2369
5°	2290	2324	2362
10°	2109	2209	2346
15°	1893	2056	2307
20°	1657	1881	2244
25°	1400	1680	2166
30°	1128	1461	2078
35°	830	1232	1979
40°	518	994	1877
45°	194	726	1745
50°	91	454	1611
55°	66	188	1490
60°	47	99	1289
65°	28	117	1021
70°	26	137	648
75°	35	136	202
80°	52	167	151
85°	103	269	197

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1745 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.5	7.1
10°-20°	81.7	18.5
20°-30°	104.0	23.5
30°-40°	96.8	21.9
40°-50°	66.3	15.0
50°-60°	36.5	8.3
60°-70°	17.3	3.9
70°-80°	5.4	1.2
80°-90°	2.8	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°	217.2	49.1
0°-40°	314.0	71.0
0°-60°	416.9	94.2
0°-90°	442.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	442.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	344	344	344	344	344	
5°	331	336	336	339	342	31
15°	266	274	288	310	324	74
25°	184	196	221	257	285	84
35°	99	113	147	195	236	61
45°	20	34	75	132	179	19
55°	6	6	16	74	124	5
65°	2	2	7	27	63	2
75°	1	2	5	6	8	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°	344.0	344.0	344.0	344.0	344.0
2.5°	340.6	344.0	341.4	341.4	341.8
5°	331.3	335.5	336.3	338.9	341.8
7.5°	317.7	323.2	327.4	334.6	339.7
10°	301.6	308.4	316.0	327.9	335.5
12.5°	284.7	291.9	303.3	319.8	330.4
15°	265.6	274.1	288.5	310.1	323.6
17.5°	246.1	255.4	273.2	298.6	315.6
20°	226.2	235.9	256.7	285.1	306.3
22.5°	205.4	216.0	238.9	271.1	296.1
25°	184.3	195.7	221.1	256.7	285.1
27.5°	163.1	174.9	202.9	241.9	273.6
30°	141.9	154.2	183.8	226.6	261.4
32.5°	120.3	133.9	165.2	211.4	248.7
35°	98.7	112.7	146.6	194.9	235.5
37.5°	77.5	91.9	128.4	179.2	222.4
40°	57.6	72.0	110.6	163.5	208.8
42.5°	37.3	52.5	91.9	147.4	194.0
45°	19.9	33.5	74.6	132.2	179.2
47.5°	10.6	17.8	58.0	116.9	165.2
50°	8.5	9.7	42.4	101.7	150.4
52.5°	6.8	7.6	27.1	86.0	137.2
55°	5.5	6.4	15.7	73.7	124.1
57.5°	4.2	5.1	8.9	61.4	108.9
60°	3.4	3.8	7.2	49.1	93.6
62.5°	2.1	3.0	7.2	38.1	78.4
65°	1.7	2.1	7.2	27.1	62.7
67.5°	1.7	1.7	7.2	17.8	47.0
70°	1.3	1.3	6.8	11.4	32.2
72.5°	1.3	1.3	5.9	7.6	18.6
75°	1.3	2.1	5.1	5.5	7.6
77.5°	1.3	3.4	4.7	4.7	4.2
80°	1.3	3.4	4.2	3.8	3.8
82.5°	1.3	3.4	3.4	3.4	3.0
85°	1.3	3.0	3.4	3.0	2.5
87.5°	1.3	3.0	3.0	3.0	1.7
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	12.04	13.32	12.40	13.64	13.95
	3H	0.00	0.00	0.00	0.00	0.00	12.83	13.96	13.21	14.29	14.66
	4H	0.00	0.00	0.00	0.00	0.00	12.85	13.91	13.25	14.26	14.64
	6H	0.00	0.00	0.00	0.00	0.00	12.81	13.78	13.22	14.15	14.54
	8H	0.00	0.00	0.00	0.00	0.00	12.78	13.70	13.22	14.09	14.50
	12H	0.00	0.00	0.00	0.00	0.00	12.77	13.64	13.20	14.03	14.46
4H	2H	0.00	0.00	0.00	0.00	0.00	11.82	12.88	12.22	13.23	13.61
	3H	0.00	0.00	0.00	0.00	0.00	12.65	13.51	13.06	13.92	14.32
	4H	0.00	0.00	0.00	0.00	0.00	12.68	13.45	13.12	13.87	14.32
	6H	0.00	0.00	0.00	0.00	0.40	12.67	13.33	13.13	13.78	14.25
	8H	0.00	0.19	0.04	0.63	1.11	12.65	13.27	13.12	13.72	14.19
	12H	0.32	0.87	0.81	1.35	1.83	12.66	13.20	13.14	13.69	14.16
8H	4H	0.00	0.00	0.00	0.41	0.88	12.57	13.19	13.04	13.64	14.11
	6H	1.10	1.60	1.60	2.10	2.58	12.57	13.08	13.07	13.57	14.06
	8H	2.05	2.51	2.58	3.02	3.52	12.58	13.03	13.10	13.55	14.04
	12H	3.00	3.40	3.52	3.90	4.47	12.62	13.02	13.14	13.52	14.09
12H	4H	0.00	0.19	0.13	0.67	1.15	12.53	13.07	13.01	13.56	14.03
	6H	1.55	2.00	2.07	2.52	3.01	12.53	12.98	13.05	13.50	13.99
	8H	2.69	3.09	3.21	3.59	4.16	12.57	12.97	13.08	13.46	14.03