

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: P1061617

Luminaire Tested: S125RDRP-S375D840-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061617
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-47)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S375D840-X4F0-XX-UDD-SVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

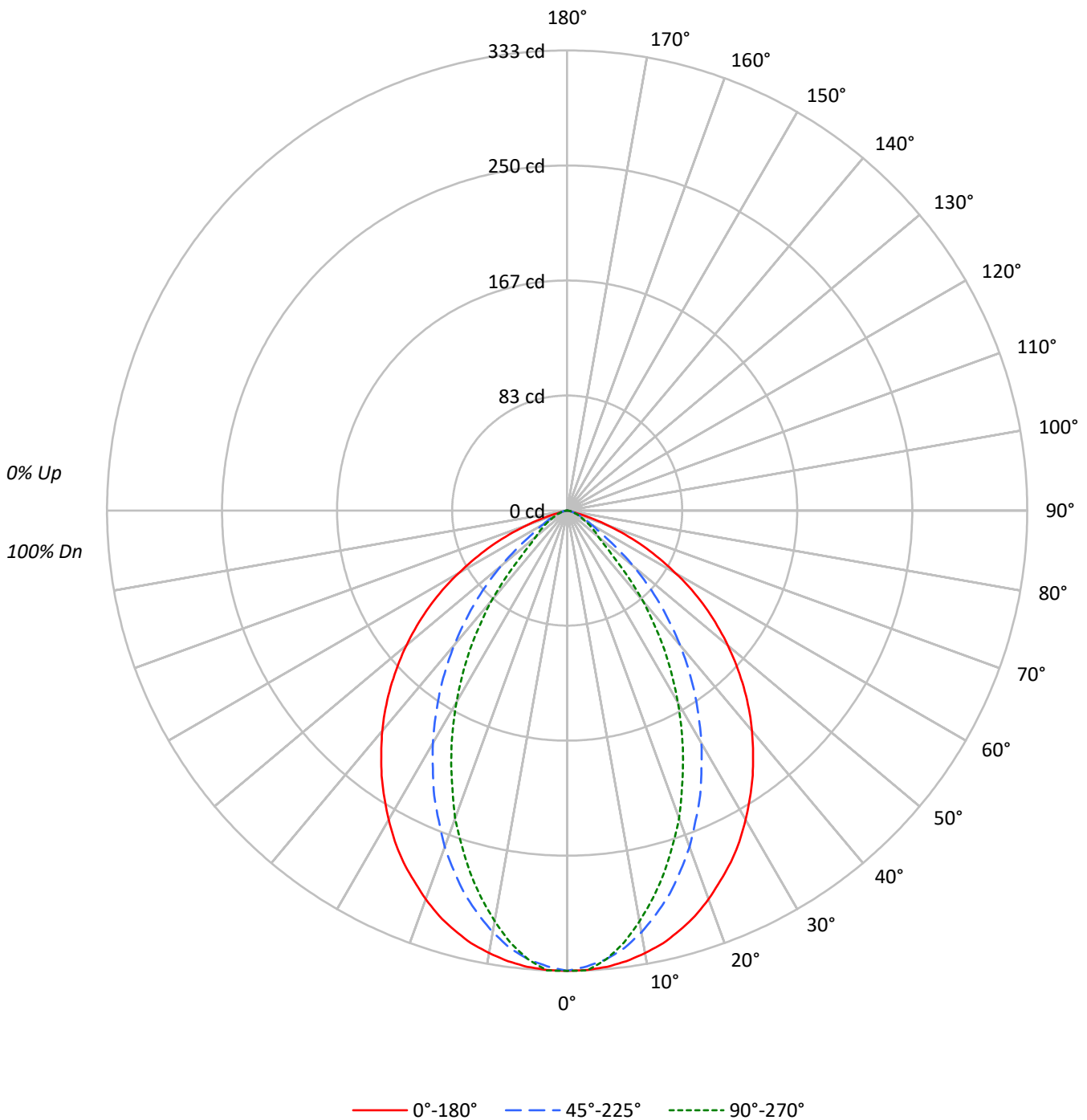
Lumens per Lamp: N/A
Luminaire Lumens: 481.7 lumens
Efficiency: N/A
Efficacy: 38.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	97	98	96	95	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	77	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	61	71	65	60	69	64	59	67	63	59	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39
10	62	50	43	38	61	50	43	38	49	43	38	48	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2293	2293	2293
5°	2290	2252	2252
10°	2273	2166	2110
15°	2242	2046	1934
20°	2192	1898	1737
25°	2132	1730	1508
30°	2053	1545	1272
35°	1968	1352	1031
40°	1871	1141	765
45°	1760	915	462
50°	1627	671	317
55°	1468	412	264
60°	1248	280	209
65°	986	213	166
70°	622	153	137
75°	202	112	112
80°	67	83	99
85°	32	63	63

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1760 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.8	6.4
10°-20°	81.4	16.9
20°-30°	107.0	22.2
30°-40°	105.2	21.8
40°-50°	79.6	16.5
50°-60°	48.2	10.0
60°-70°	22.8	4.7
70°-80°	5.9	1.2
80°-90°	0.9	0.2
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°	219.2	45.5
0°-40°	324.3	67.3
0°-60°	452.1	93.9
0°-90°	481.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	481.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	333	333	333	333	333	
5°	331	331	326	326	326	31
15°	314	306	287	276	271	89
25°	281	260	228	206	198	129
35°	234	203	161	132	123	146
45°	181	142	94	60	47	139
55°	122	84	34	23	22	109
65°	60	31	13	11	10	60
75°	8	5	4	4	4	12
85°	0	0	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	333.1	333.1	333.1	333.1	333.1
2.5°	332.7	332.7	330.1	333.1	333.1
5°	331.4	330.6	325.9	326.3	325.9
7.5°	328.9	327.2	319.1	317.0	315.3
10°	325.1	321.7	309.8	304.7	301.8
12.5°	320.8	314.9	298.8	291.6	287.0
15°	314.5	306.0	287.0	276.0	271.3
17.5°	307.7	295.4	273.0	259.9	253.9
20°	299.2	284.8	259.0	242.9	237.0
22.5°	289.9	273.0	242.9	225.2	217.1
25°	280.6	259.5	227.7	206.5	198.5
27.5°	270.0	245.9	210.4	188.3	179.5
30°	258.2	232.4	194.3	171.4	160.0
32.5°	246.3	218.4	177.3	152.4	140.9
35°	234.1	202.7	160.8	132.5	122.7
37.5°	220.9	187.9	143.9	114.3	102.8
40°	208.2	173.1	127.0	95.7	85.1
42.5°	194.7	158.3	110.0	77.5	65.6
45°	180.7	142.2	94.0	59.7	47.4
47.5°	166.3	127.8	77.9	44.0	35.6
50°	151.9	112.6	62.6	32.6	29.6
52.5°	137.1	97.8	47.4	27.1	25.8
55°	122.3	83.8	34.3	23.3	22.0
57.5°	107.1	68.6	25.8	19.9	18.6
60°	90.6	55.0	20.3	16.5	15.2
62.5°	75.3	43.2	16.5	13.5	12.7
65°	60.5	30.9	13.1	11.0	10.2
67.5°	45.3	20.7	10.2	8.5	8.5
70°	30.9	13.5	7.6	6.8	6.8
72.5°	18.6	8.0	5.5	5.5	5.5
75°	7.6	5.1	4.2	4.2	4.2
77.5°	2.5	3.0	3.0	3.4	3.4
80°	1.7	1.7	2.1	2.5	2.5
82.5°	0.8	1.3	1.3	1.7	1.7
85°	0.4	0.4	0.8	0.8	0.8
87.5°	0.0	0.0	0.0	0.4	0.4
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	12.22	13.55	12.58	13.86	14.18	2.87	4.20	3.23	4.51	4.83
	3H	12.92	14.10	13.30	14.43	14.79	3.66	4.83	4.04	5.16	5.53
	4H	12.94	14.03	13.34	14.38	14.77	3.90	5.00	4.30	5.35	5.73
	6H	12.87	13.87	13.28	14.24	14.64	4.08	5.09	4.49	5.46	5.85
	8H	12.83	13.78	13.26	14.17	14.57	4.12	5.08	4.55	5.47	5.87
	12H	12.78	13.69	13.22	14.08	14.51	4.13	5.04	4.56	5.42	5.85
4H	2H	12.05	13.14	12.45	13.49	13.88	3.35	4.45	3.76	4.80	5.18
	3H	12.79	13.68	13.20	14.09	14.49	4.27	5.16	4.68	5.56	5.97
	4H	12.81	13.60	13.24	14.02	14.47	4.58	5.37	5.01	5.79	6.23
	6H	12.75	13.43	13.21	13.88	14.34	4.83	5.52	5.30	5.96	6.43
	8H	12.70	13.33	13.17	13.78	14.25	4.90	5.54	5.37	5.98	6.46
	12H	12.65	13.21	13.14	13.70	14.17	4.92	5.48	5.41	5.97	6.44
8H	4H	12.69	13.33	13.16	13.78	14.25	4.69	5.33	5.16	5.77	6.24
	6H	12.62	13.14	13.12	13.63	14.11	5.00	5.52	5.51	6.02	6.50
	8H	12.56	13.03	13.09	13.54	14.04	5.11	5.57	5.63	6.09	6.58
	12H	12.52	12.93	13.04	13.43	14.00	5.17	5.58	5.68	6.07	6.64
12H	4H	12.65	13.21	13.13	13.69	14.17	4.66	5.22	5.15	5.71	6.18
	6H	12.56	13.02	13.08	13.54	14.03	4.97	5.44	5.50	5.96	6.45
	8H	12.52	12.94	13.04	13.43	14.00	5.11	5.52	5.63	6.02	6.59