

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: P1062002

Luminaire Tested: S125RDRP-H375D830-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1062002
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-H375D830-X4F0-XX-UDD-BVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

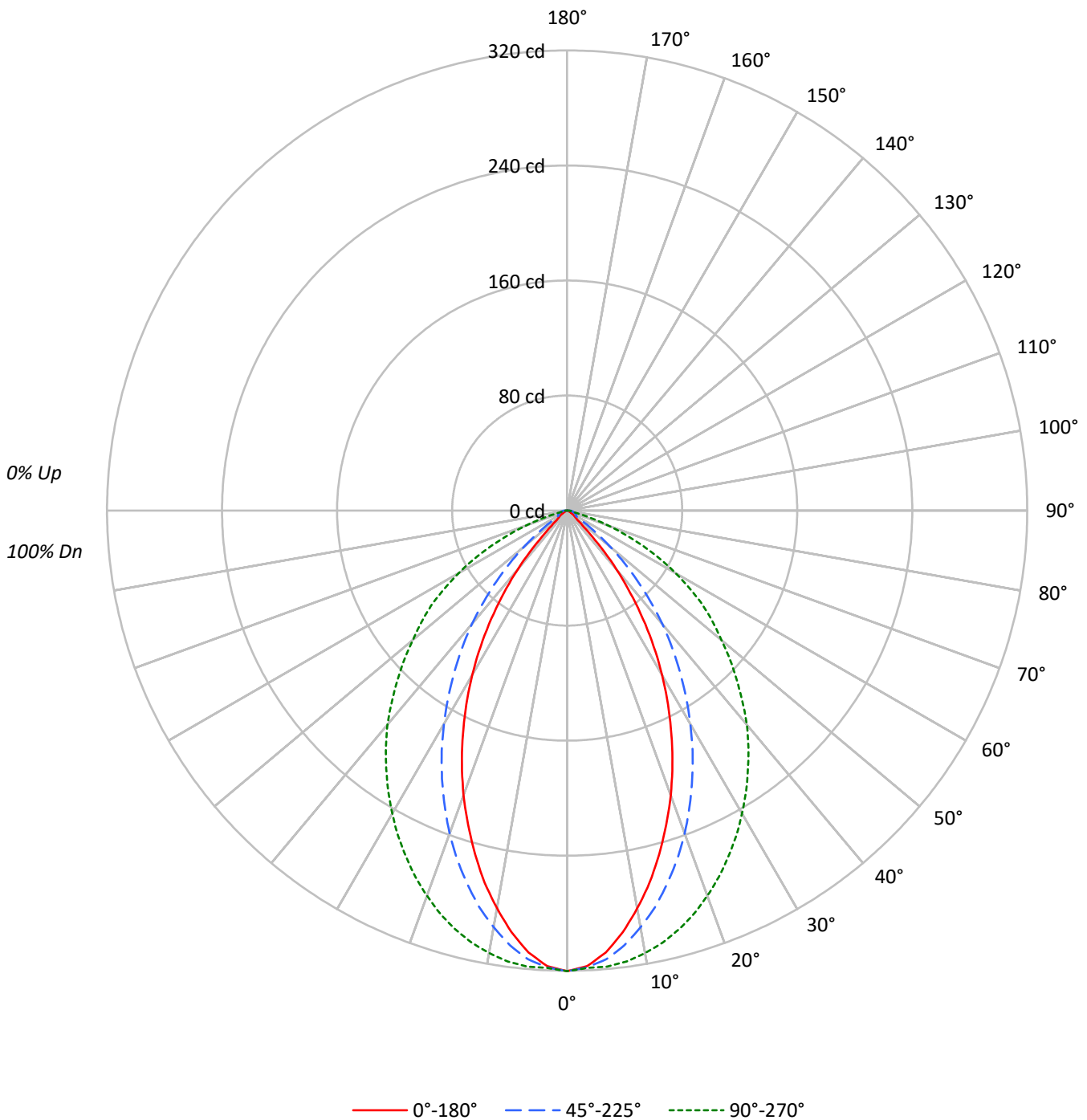
Lumens per Lamp: N/A
Luminaire Lumens: 411.9 lumens
Efficiency: N/A
Efficacy: 35.2 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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	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°	2205	2205	2205
5°	2132	2165	2200
10°	1963	2057	2184
15°	1763	1915	2148
20°	1543	1751	2089
25°	1304	1564	2016
30°	1050	1361	1934
35°	772	1147	1843
40°	482	925	1747
45°	180	676	1624
50°	85	422	1500
55°	61	175	1388
60°	44	92	1201
65°	26	109	951
70°	24	127	604
75°	32	125	189
80°	48	155	139
85°	95	253	190

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1624 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.4	7.1
10°-20°	76.0	18.5
20°-30°	96.8	23.5
30°-40°	90.1	21.9
40°-50°	61.8	15.0
50°-60°	34.0	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°	202.2	49.1
0°-40°	292.4	71.0
0°-60°	388.2	94.2
0°-90°	411.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	411.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	320	320	320	320	320	
5°	308	312	313	316	318	29
15°	247	255	269	289	301	69
25°	172	182	206	239	265	78
35°	92	105	136	181	219	57
45°	18	31	69	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°	320.3	320.3	320.3	320.3	320.3
2.5°	317.1	320.3	317.9	317.9	318.3
5°	308.4	312.4	313.2	315.5	318.3
7.5°	295.8	300.9	304.9	311.6	316.3
10°	280.8	287.1	294.2	305.3	312.4
12.5°	265.0	271.7	282.4	297.8	307.6
15°	247.3	255.2	268.6	288.7	301.3
17.5°	229.1	237.8	254.4	278.0	293.8
20°	210.6	219.7	239.0	265.4	285.1
22.5°	191.3	201.1	222.4	252.4	275.7
25°	171.6	182.2	205.9	239.0	265.4
27.5°	151.8	162.9	188.9	225.2	254.8
30°	132.1	143.6	171.2	211.0	243.3
32.5°	112.0	124.6	153.8	196.8	231.5
35°	91.9	104.9	136.5	181.4	219.3
37.5°	72.2	85.6	119.5	166.8	207.1
40°	53.6	67.0	102.9	152.2	194.4
42.5°	34.7	48.9	85.6	137.3	180.6
45°	18.5	31.2	69.4	123.1	166.8
47.5°	9.9	16.6	54.0	108.9	153.8
50°	7.9	9.1	39.4	94.7	140.0
52.5°	6.3	7.1	25.2	80.1	127.8
55°	5.1	5.9	14.6	68.6	115.6
57.5°	3.9	4.7	8.3	57.2	101.4
60°	3.2	3.5	6.7	45.8	87.2
62.5°	2.0	2.8	6.7	35.5	73.0
65°	1.6	2.0	6.7	25.2	58.4
67.5°	1.6	1.6	6.7	16.6	43.8
70°	1.2	1.2	6.3	10.6	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	3.9
80°	1.2	3.2	3.9	3.5	3.5
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	11.79	13.08	12.16	13.39	13.71
	3H	0.00	0.00	0.00	0.00	0.00	12.58	13.72	12.96	14.05	14.41
	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	12.56	13.53	12.98	13.90	14.30
	8H	0.00	0.00	0.00	0.00	0.00	12.54	13.46	12.97	13.85	14.26
	12H	0.00	0.00	0.00	0.00	0.00	12.52	13.40	12.95	13.78	14.21
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	12.40	13.27	12.82	13.67	14.08
	4H	0.00	0.00	0.00	0.00	0.00	12.44	13.21	12.87	13.63	14.07
	6H	0.00	0.00	0.00	0.00	0.16	12.43	13.09	12.89	13.54	14.00
	8H	0.00	0.00	0.00	0.40	0.87	12.41	13.03	12.88	13.48	13.95
	12H	0.08	0.63	0.57	1.11	1.59	12.41	12.96	12.90	13.44	13.92
8H	4H	0.00	0.00	0.00	0.14	0.61	12.32	12.94	12.79	13.39	13.86
	6H	0.85	1.35	1.35	1.85	2.33	12.32	12.83	12.83	13.33	13.81
	8H	1.82	2.27	2.34	2.79	3.28	12.33	12.79	12.85	13.30	13.79
	12H	2.77	3.17	3.28	3.67	4.24	12.38	12.78	12.90	13.28	13.85
12H	4H	0.00	0.00	0.00	0.40	0.87	12.28	12.83	12.77	13.31	13.79
	6H	1.30	1.76	1.83	2.28	2.77	12.28	12.73	12.80	13.25	13.74
	8H	2.46	2.86	2.98	3.36	3.93	12.32	12.72	12.84	13.22	13.79