

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: P1061650

Luminaire Tested: S125RDRP-S375D935-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061650
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-S375D935-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, 90 CRI LEDS
Ballast/Driver: -

Summary

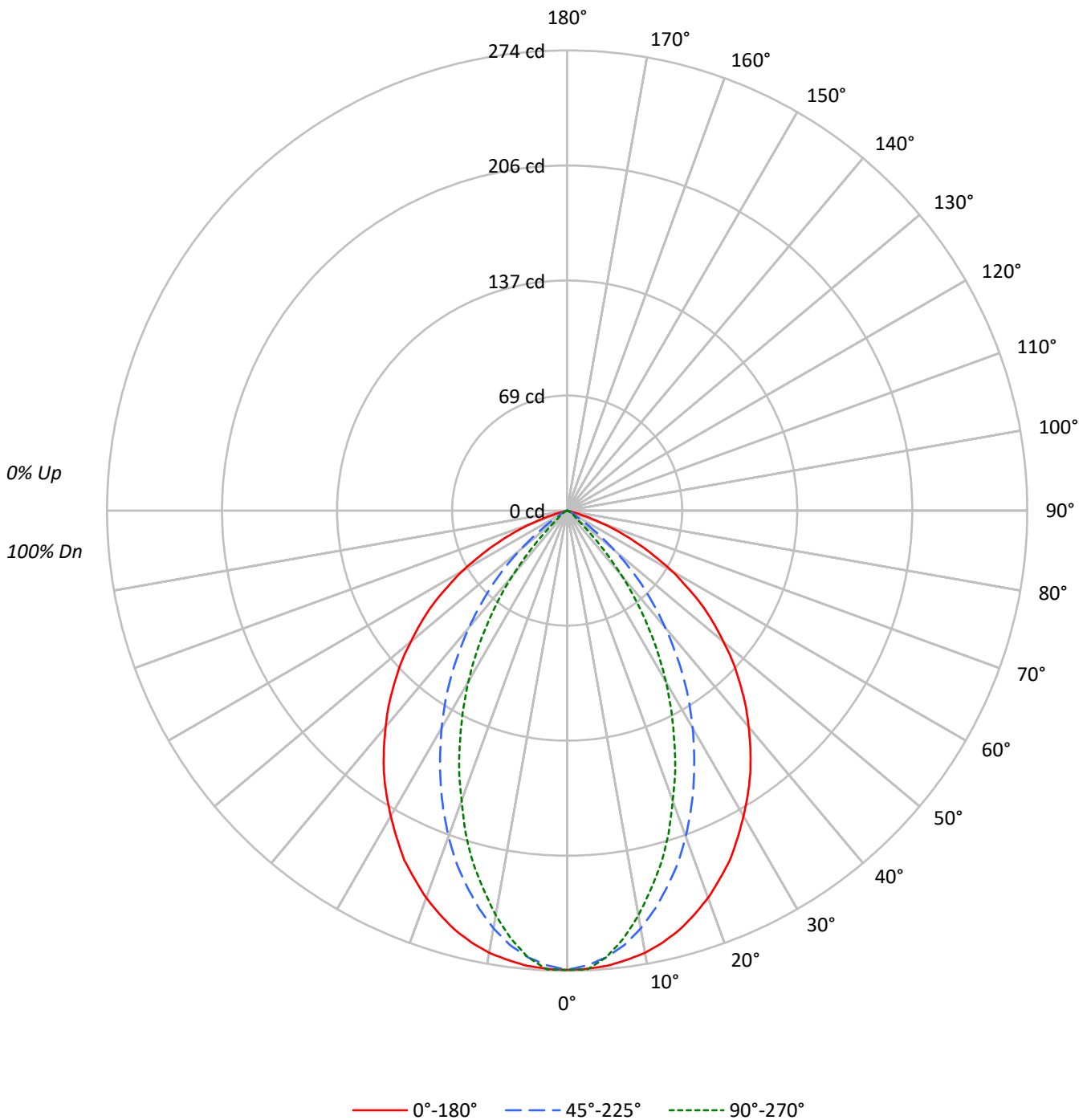
Lumens per Lamp: N/A
Luminaire Lumens: 353.4 lumens
Efficiency: N/A
Efficacy: 28.3 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.81 / 0.97
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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°	1883	1883	1883
5°	1881	1845	1845
10°	1870	1766	1710
15°	1842	1649	1546
20°	1798	1512	1346
25°	1744	1355	1146
30°	1670	1188	935
35°	1599	1013	701
40°	1511	817	454
45°	1416	618	197
50°	1303	394	74
55°	1174	173	52
60°	994	74	34
65°	753	47	18
70°	457	22	8
75°	96	11	11
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1416 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.2	7.1
10°-20°	65.7	18.6
20°-30°	84.4	23.9
30°-40°	79.4	22.5
40°-50°	55.5	15.7
50°-60°	29.7	8.4
60°-70°	11.8	3.4
70°-80°	1.5	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°	175.3	49.6
0°-40°	254.8	72.1
0°-60°	340.0	96.2
0°-90°	353.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	353.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	274	274	274	274	274	
5°	272	271	267	268	267	26
15°	258	250	231	220	217	73
25°	230	209	178	159	151	105
35°	190	160	120	93	83	119
45°	145	109	64	31	20	112
55°	98	60	14	5	4	87
65°	46	18	3	1	1	46
75°	4	1	0	0	0	7
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°	273.5	273.5	273.5	273.5	273.5
2.5°	273.1	273.5	271.0	273.1	273.5
5°	272.1	271.3	267.0	267.7	267.0
7.5°	269.9	268.1	260.9	258.4	256.9
10°	267.4	263.4	252.6	247.2	244.6
12.5°	263.4	257.6	242.5	234.2	230.6
15°	258.4	250.1	231.3	220.5	216.9
17.5°	252.2	241.4	219.7	206.4	201.0
20°	245.4	230.9	206.4	190.5	183.7
22.5°	237.4	220.8	192.7	175.0	168.1
25°	229.5	209.3	178.3	158.8	150.8
27.5°	219.7	197.4	163.8	142.9	134.2
30°	210.0	185.5	149.4	126.7	117.6
32.5°	200.3	172.8	135.0	109.7	100.7
35°	190.2	159.8	120.5	93.1	83.4
37.5°	179.3	146.9	105.0	77.2	67.1
40°	168.1	134.2	90.9	61.7	50.5
42.5°	157.3	121.6	76.9	46.5	34.3
45°	145.4	109.0	63.5	30.7	20.2
47.5°	134.2	96.7	49.8	17.7	10.5
50°	121.6	84.1	36.8	9.4	6.9
52.5°	109.7	71.8	24.5	6.1	5.4
55°	97.8	59.9	14.4	5.1	4.3
57.5°	84.1	48.4	7.9	4.0	3.2
60°	72.2	37.9	5.4	2.9	2.5
62.5°	58.5	27.8	4.0	2.2	1.8
65°	46.2	18.4	2.9	1.4	1.1
67.5°	34.3	10.8	1.8	0.7	0.7
70°	22.7	5.8	1.1	0.4	0.4
72.5°	11.9	2.5	0.7	0.4	0.4
75°	3.6	1.1	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	11.15	12.41	11.51	12.72	13.04	0.00	0.00	0.00	0.00	0.00
	3H	11.73	12.84	12.11	13.17	13.54	0.00	0.00	0.00	0.00	0.00
	4H	11.69	12.73	12.10	13.08	13.46	0.00	0.00	0.00	0.00	0.00
	6H	11.61	12.55	12.02	12.93	13.32	0.00	0.00	0.00	0.00	0.00
	8H	11.56	12.46	11.99	12.85	13.25	0.00	0.00	0.00	0.00	0.00
	12H	11.52	12.37	11.95	12.75	13.18	0.00	0.00	0.00	0.00	0.00
4H	2H	10.92	11.95	11.32	12.30	12.69	0.00	0.00	0.00	0.00	0.00
	3H	11.51	12.35	11.93	12.75	13.16	0.00	0.00	0.00	0.00	0.00
	4H	11.46	12.20	11.90	12.62	13.07	0.00	0.00	0.00	0.00	0.00
	6H	11.37	12.01	11.84	12.46	12.93	0.00	0.00	0.00	0.00	0.00
	8H	11.31	11.91	11.79	12.36	12.83	0.00	0.00	0.00	0.00	0.00
	12H	11.26	11.78	11.75	12.27	12.74	0.00	0.00	0.00	0.00	0.00
8H	4H	11.31	11.91	11.79	12.36	12.83	0.00	0.00	0.00	0.00	0.00
	6H	11.21	11.69	11.71	12.19	12.67	0.00	0.00	0.00	0.00	0.00
	8H	11.14	11.57	11.67	12.09	12.58	0.00	0.00	0.00	0.00	0.00
	12H	11.09	11.47	11.61	11.97	12.54	0.00	0.00	0.00	0.00	0.00
12H	4H	11.26	11.78	11.75	12.27	12.74	0.00	0.00	0.00	0.00	0.00
	6H	11.14	11.57	11.67	12.09	12.58	0.00	0.00	0.00	0.00	0.00
	8H	11.09	11.47	11.61	11.97	12.54	0.00	0.00	0.00	0.00	0.00