

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: P1061659

Luminaire Tested: S125RDRP-S375D940-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061659
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-S375D940-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

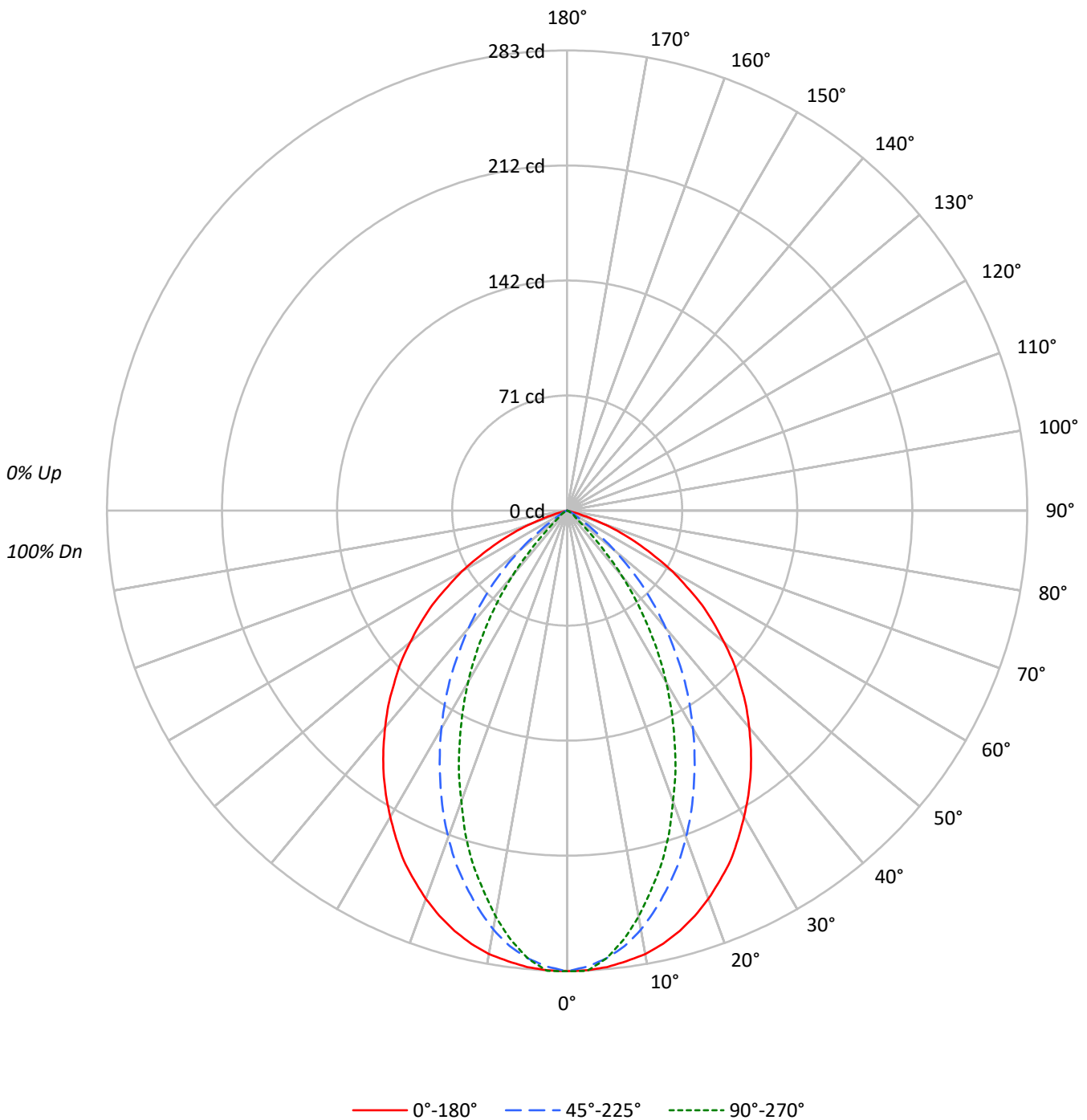
Lumens per Lamp: N/A
Luminaire Lumens: 365.9 lumens
Efficiency: N/A
Efficacy: 29.3 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.81 / 0.97
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 12.5
Input Voltage (V): 120
Input Current (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	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°	1951	1951	1951
5°	1948	1911	1911
10°	1936	1829	1772
15°	1907	1707	1601
20°	1862	1567	1394
25°	1806	1402	1187
30°	1729	1230	968
35°	1655	1049	725
40°	1565	847	470
45°	1466	641	204
50°	1349	408	76
55°	1216	179	54
60°	1029	77	36
65°	779	49	18
70°	473	22	8
75°	98	11	11
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1466 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.1	7.1
10°-20°	68.1	18.6
20°-30°	87.4	23.9
30°-40°	82.3	22.5
40°-50°	57.5	15.7
50°-60°	30.7	8.4
60°-70°	12.3	3.3
70°-80°	1.6	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°	181.6	49.6
0°-40°	263.9	72.1
0°-60°	352.1	96.2
0°-90°	365.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	365.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	283	283	283	283	283	
5°	282	281	276	277	276	27
15°	268	259	240	228	225	75
25°	238	217	185	164	156	109
35°	197	166	125	96	86	123
45°	151	113	66	32	21	116
55°	101	62	15	5	4	90
65°	48	19	3	2	1	48
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°	283.3	283.3	283.3	283.3	283.3
2.5°	282.9	283.3	280.7	282.9	283.3
5°	281.8	281.0	276.5	277.3	276.5
7.5°	279.5	277.7	270.2	267.6	266.1
10°	276.9	272.8	261.6	256.0	253.4
12.5°	272.8	266.8	251.1	242.5	238.8
15°	267.6	259.0	239.5	228.3	224.6
17.5°	261.2	250.0	227.6	213.8	208.2
20°	254.1	239.2	213.8	197.3	190.2
22.5°	245.9	228.7	199.6	181.2	174.1
25°	237.7	216.7	184.6	164.4	156.2
27.5°	227.6	204.4	169.7	148.0	139.0
30°	217.5	192.1	154.7	131.2	121.8
32.5°	207.4	179.0	139.8	113.6	104.3
35°	196.9	165.6	124.8	96.4	86.3
37.5°	185.7	152.1	108.7	80.0	69.5
40°	174.1	139.0	94.2	63.9	52.3
42.5°	162.9	125.9	79.6	48.2	35.5
45°	150.6	112.9	65.8	31.8	20.9
47.5°	139.0	100.2	51.6	18.3	10.8
50°	125.9	87.1	38.1	9.7	7.1
52.5°	113.6	74.4	25.4	6.4	5.6
55°	101.3	62.0	14.9	5.2	4.5
57.5°	87.1	50.1	8.2	4.1	3.4
60°	74.7	39.2	5.6	3.0	2.6
62.5°	60.5	28.8	4.1	2.2	1.9
65°	47.8	19.1	3.0	1.5	1.1
67.5°	35.5	11.2	1.9	0.7	0.7
70°	23.5	6.0	1.1	0.4	0.4
72.5°	12.3	2.6	0.7	0.4	0.4
75°	3.7	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	11.27	12.53	11.63	12.84	13.16	0.00	0.00	0.00	0.00	0.00
	3H	11.85	12.96	12.23	13.29	13.66	0.00	0.00	0.00	0.00	0.00
	4H	11.81	12.85	12.22	13.20	13.58	0.00	0.00	0.00	0.00	0.00
	6H	11.73	12.67	12.14	13.04	13.44	0.00	0.00	0.00	0.00	0.00
	8H	11.68	12.57	12.11	12.97	13.37	0.00	0.00	0.00	0.00	0.00
	12H	11.64	12.49	12.07	12.87	13.30	0.00	0.00	0.00	0.00	0.00
4H	2H	11.04	12.07	11.44	12.42	12.81	0.00	0.00	0.00	0.00	0.00
	3H	11.63	12.47	12.04	12.87	13.28	0.00	0.00	0.00	0.00	0.00
	4H	11.58	12.32	12.02	12.74	13.19	0.00	0.00	0.00	0.00	0.00
	6H	11.49	12.13	11.96	12.58	13.05	0.00	0.00	0.00	0.00	0.00
	8H	11.43	12.03	11.90	12.47	12.95	0.00	0.00	0.00	0.00	0.00
	12H	11.38	11.90	11.87	12.39	12.86	0.00	0.00	0.00	0.00	0.00
8H	4H	11.43	12.03	11.90	12.47	12.95	0.00	0.00	0.00	0.00	0.00
	6H	11.33	11.81	11.83	12.31	12.79	0.00	0.00	0.00	0.00	0.00
	8H	11.26	11.69	11.78	12.21	12.70	0.00	0.00	0.00	0.00	0.00
	12H	11.21	11.59	11.73	12.09	12.66	0.00	0.00	0.00	0.00	0.00
12H	4H	11.38	11.90	11.87	12.39	12.86	0.00	0.00	0.00	0.00	0.00
	6H	11.26	11.69	11.78	12.21	12.70	0.00	0.00	0.00	0.00	0.00
	8H	11.21	11.59	11.73	12.09	12.66	0.00	0.00	0.00	0.00	0.00