

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: P1061632

Luminaire Tested: S125RDRP-S375D927-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061632
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-S375D927-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

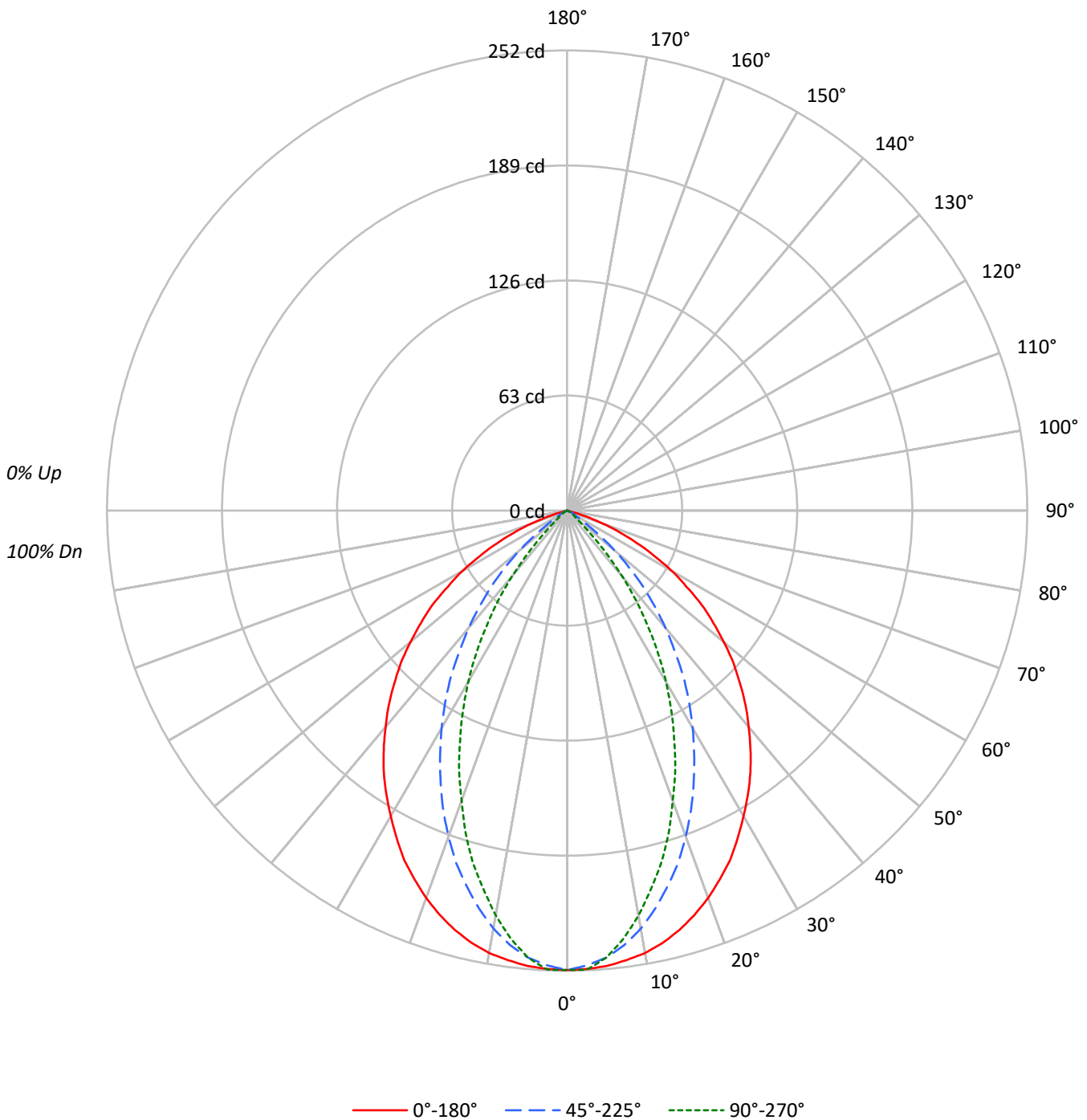
Lumens per Lamp: N/A
Luminaire Lumens: 325.1 lumens
Efficiency: N/A
Efficacy: 26.0 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.81 / 0.97
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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°	1732	1732	1732
5°	1730	1698	1698
10°	1720	1625	1574
15°	1694	1517	1422
20°	1654	1391	1238
25°	1604	1246	1054
30°	1536	1092	860
35°	1471	932	645
40°	1390	752	418
45°	1303	569	181
50°	1199	363	67
55°	1080	160	48
60°	914	69	32
65°	692	44	16
70°	421	20	6
75°	88	8	8
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1303 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.2	7.1
10°-20°	60.5	18.6
20°-30°	77.6	23.9
30°-40°	73.1	22.5
40°-50°	51.1	15.7
50°-60°	27.3	8.4
60°-70°	10.9	3.4
70°-80°	1.4	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°	161.3	49.6
0°-40°	234.4	72.1
0°-60°	312.8	96.2
0°-90°	325.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	325.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	252	252	252	252	252	
5°	250	250	246	246	246	24
15°	238	230	213	203	200	67
25°	211	193	164	146	139	97
35°	175	147	111	86	77	109
45°	134	100	58	28	19	103
55°	90	55	13	5	4	80
65°	42	17	3	1	1	42
75°	3	1	0	0	0	6
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°	251.6	251.6	251.6	251.6	251.6
2.5°	251.3	251.6	249.3	251.3	251.6
5°	250.3	249.7	245.7	246.3	245.7
7.5°	248.3	246.7	240.0	237.7	236.4
10°	246.0	242.4	232.4	227.4	225.1
12.5°	242.4	237.0	223.1	215.5	212.1
15°	237.7	230.1	212.8	202.8	199.5
17.5°	232.1	222.1	202.2	189.9	184.9
20°	225.8	212.5	189.9	175.3	169.0
22.5°	218.5	203.2	177.3	161.0	154.7
25°	211.1	192.6	164.0	146.1	138.8
27.5°	202.2	181.6	150.7	131.5	123.5
30°	193.2	170.6	137.4	116.5	108.2
32.5°	184.3	159.0	124.2	100.9	92.6
35°	175.0	147.1	110.9	85.7	76.7
37.5°	165.0	135.1	96.6	71.0	61.8
40°	154.7	123.5	83.7	56.8	46.5
42.5°	144.7	111.9	70.7	42.8	31.5
45°	133.8	100.3	58.4	28.2	18.6
47.5°	123.5	89.0	45.8	16.3	9.6
50°	111.9	77.4	33.9	8.6	6.3
52.5°	100.9	66.1	22.6	5.6	5.0
55°	90.0	55.1	13.3	4.6	4.0
57.5°	77.4	44.5	7.3	3.7	3.0
60°	66.4	34.9	5.0	2.7	2.3
62.5°	53.8	25.6	3.7	2.0	1.7
65°	42.5	16.9	2.7	1.3	1.0
67.5°	31.5	10.0	1.7	0.7	0.7
70°	20.9	5.3	1.0	0.3	0.3
72.5°	11.0	2.3	0.7	0.3	0.3
75°	3.3	1.0	0.3	0.3	0.3
77.5°	0.0	0.3	0.0	0.0	0.3
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	10.86	12.12	11.22	12.43	12.75	0.00	0.00	0.00	0.00	0.00
	3H	11.44	12.55	11.82	12.88	13.25	0.00	0.00	0.00	0.00	0.00
	4H	11.40	12.44	11.81	12.79	13.17	0.00	0.00	0.00	0.00	0.00
	6H	11.32	12.26	11.73	12.63	13.03	0.00	0.00	0.00	0.00	0.00
	8H	11.27	12.16	11.70	12.56	12.96	0.00	0.00	0.00	0.00	0.00
	12H	11.23	12.08	11.66	12.46	12.89	0.00	0.00	0.00	0.00	0.00
4H	2H	10.63	11.66	11.03	12.01	12.40	0.00	0.00	0.00	0.00	0.00
	3H	11.22	12.06	11.63	12.46	12.86	0.00	0.00	0.00	0.00	0.00
	4H	11.17	11.91	11.61	12.33	12.78	0.00	0.00	0.00	0.00	0.00
	6H	11.08	11.72	11.55	12.17	12.64	0.00	0.00	0.00	0.00	0.00
	8H	11.02	11.62	11.49	12.06	12.54	0.00	0.00	0.00	0.00	0.00
	12H	10.97	11.49	11.46	11.98	12.45	0.00	0.00	0.00	0.00	0.00
8H	4H	11.02	11.62	11.49	12.06	12.54	0.00	0.00	0.00	0.00	0.00
	6H	10.92	11.40	11.42	11.90	12.38	0.00	0.00	0.00	0.00	0.00
	8H	10.85	11.28	11.37	11.80	12.29	0.00	0.00	0.00	0.00	0.00
	12H	10.80	11.18	11.32	11.68	12.25	0.00	0.00	0.00	0.00	0.00
12H	4H	10.97	11.49	11.46	11.98	12.45	0.00	0.00	0.00	0.00	0.00
	6H	10.85	11.28	11.37	11.80	12.29	0.00	0.00	0.00	0.00	0.00
	8H	10.80	11.18	11.32	11.68	12.25	0.00	0.00	0.00	0.00	0.00