

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: P1061638

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061638
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-46)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S375D927-X4F0-XX-UDD-WVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

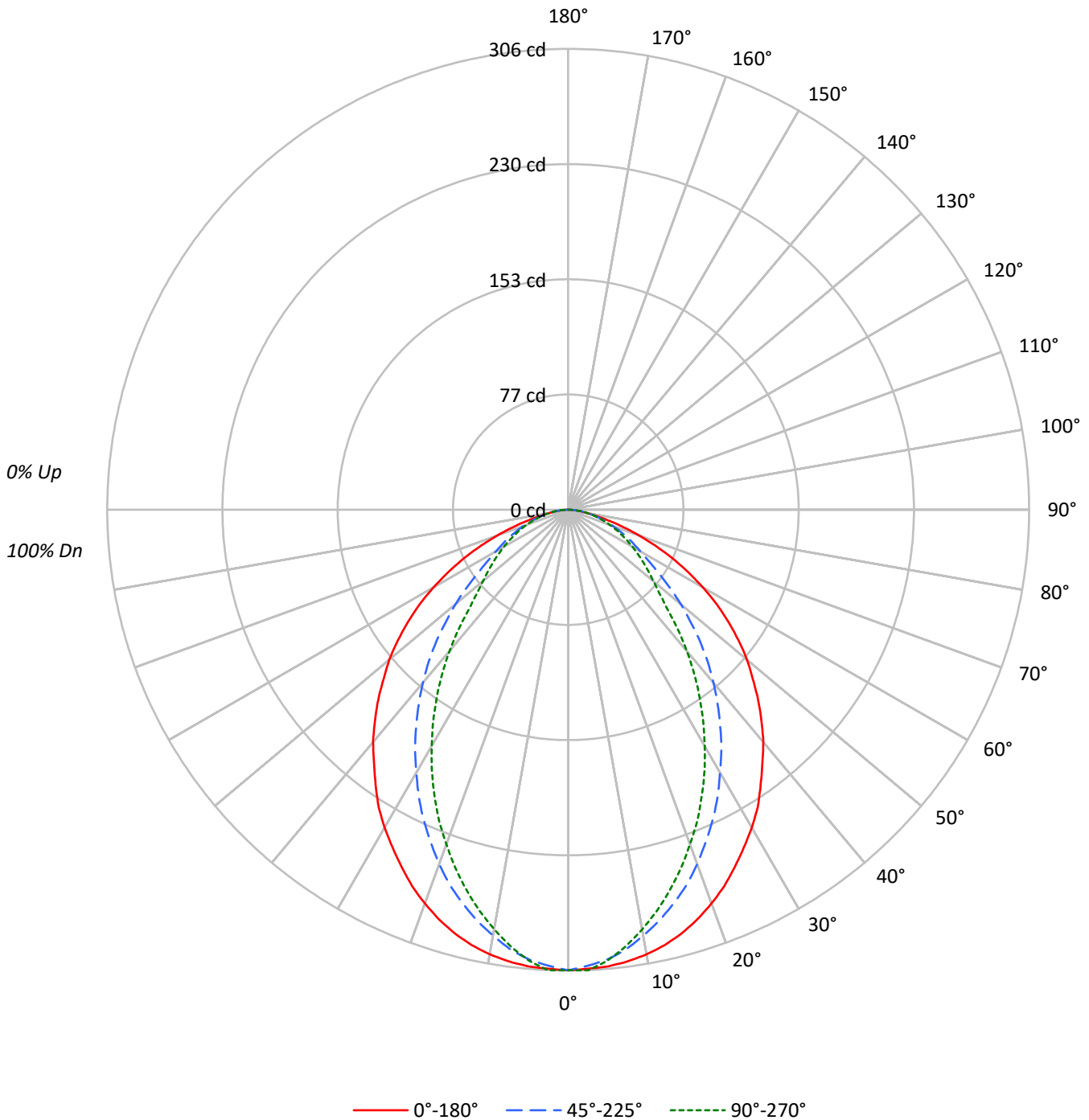
Lumens per Lamp: N/A
Luminaire Lumens: 579.2 lumens
Efficiency: N/A
Efficacy: 46.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75
3	93	84	77	71	91	82	76	70	80	74	69	77	72	68	74	70	67	65
4	86	76	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59	57
5	80	68	60	54	78	67	59	54	65	58	53	63	57	53	61	56	52	50
6	74	62	54	48	73	61	53	48	59	53	47	58	52	47	56	51	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	36
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2106	2106	2106
5°	2104	2072	2077
10°	2096	2008	1978
15°	2076	1929	1863
20°	2038	1834	1732
25°	1987	1725	1594
30°	1938	1602	1441
35°	1873	1479	1278
40°	1811	1349	1101
45°	1736	1205	902
50°	1660	1045	789
55°	1558	873	730
60°	1422	763	682
65°	1245	697	632
70°	1009	628	588
75°	724	575	548
80°	500	511	511
85°	363	442	474

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1736 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.4	4.9
10°-20°	76.9	13.3
20°-30°	106.3	18.3
30°-40°	113.2	19.5
40°-50°	99.4	17.2
50°-60°	75.4	13.0
60°-70°	49.0	8.5
70°-80°	24.3	4.2
80°-90°	6.3	1.1
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°	211.6	36.5
0°-40°	324.8	56.1
0°-60°	499.7	86.3
0°-90°	579.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	579.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	306	306	306	306	306	
5°	304	304	300	301	300	29
15°	291	284	271	264	261	82
25°	262	247	227	216	210	121
35°	223	202	176	160	152	139
45°	178	153	124	102	93	137
55°	130	104	73	63	61	116
65°	76	57	43	40	39	75
75°	27	24	22	21	21	30
85°	5	5	6	6	6	6
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	305.8	305.8	305.8	305.8	305.8
2.5°	305.1	305.8	303.1	305.4	306.1
5°	304.4	303.8	299.8	300.8	300.5
7.5°	302.5	301.1	294.5	293.8	292.5
10°	299.8	296.5	287.2	284.9	282.9
12.5°	296.1	290.8	279.5	274.9	272.6
15°	291.2	284.5	270.6	264.3	261.3
17.5°	285.2	275.9	261.3	252.7	249.3
20°	278.2	267.3	250.3	240.4	236.4
22.5°	270.6	257.6	238.7	228.1	223.8
25°	261.6	247.3	227.1	215.5	209.8
27.5°	252.7	236.7	214.8	201.9	195.9
30°	243.7	225.4	201.5	187.6	181.3
32.5°	234.1	213.8	189.2	174.0	166.7
35°	222.8	202.2	176.0	160.0	152.1
37.5°	211.8	189.9	163.0	145.1	137.4
40°	201.5	178.3	150.1	130.5	122.5
42.5°	189.9	166.0	137.1	116.5	107.6
45°	178.3	153.4	123.8	101.6	92.6
47.5°	166.0	141.4	109.9	88.0	82.0
50°	155.0	129.1	97.6	77.7	73.7
52.5°	142.4	117.2	85.0	69.7	67.1
55°	129.8	104.2	72.7	62.7	60.8
57.5°	116.9	92.6	63.1	56.8	54.8
60°	103.3	80.7	55.4	50.5	49.5
62.5°	89.6	68.4	48.8	45.2	43.8
65°	76.4	56.8	42.8	39.5	38.8
67.5°	62.7	46.1	36.9	34.5	34.2
70°	50.1	37.5	31.2	29.9	29.2
72.5°	38.5	29.9	26.2	25.2	24.9
75°	27.2	23.9	21.6	20.9	20.6
77.5°	18.3	18.3	17.3	16.6	16.9
80°	12.6	13.3	12.9	12.9	12.9
82.5°	8.3	9.0	9.3	9.3	9.3
85°	4.6	5.3	5.6	5.6	6.0
87.5°	1.7	2.0	2.3	2.7	2.7
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	13.14	14.63	13.50	14.94	15.26	9.38	10.88	9.75	11.19	11.50
	3H	14.45	15.78	14.83	16.11	16.48	10.97	12.30	11.34	12.63	12.99
	4H	14.82	16.07	15.22	16.42	16.80	11.57	12.82	11.97	13.17	13.55
	6H	14.99	16.15	15.41	16.52	16.91	12.04	13.19	12.45	13.56	13.95
	8H	15.03	16.13	15.46	16.52	16.92	12.20	13.30	12.62	13.69	14.09
	12H	15.04	16.10	15.47	16.48	16.91	12.31	13.36	12.74	13.74	14.17
4H	2H	13.25	14.50	13.65	14.85	15.23	10.04	11.30	10.44	11.65	12.03
	3H	14.74	15.77	15.15	16.17	16.58	11.82	12.86	12.24	13.26	13.66
	4H	15.21	16.15	15.64	16.56	17.00	12.54	13.48	12.97	13.89	14.33
	6H	15.50	16.31	15.96	16.75	17.21	13.13	13.94	13.59	14.38	14.84
	8H	15.57	16.33	16.03	16.77	17.24	13.33	14.09	13.80	14.54	15.00
	12H	15.61	16.28	16.09	16.76	17.23	13.49	14.16	13.97	14.64	15.11
8H	4H	15.30	16.05	15.76	16.50	16.96	12.85	13.61	13.32	14.06	14.52
	6H	15.66	16.28	16.16	16.78	17.25	13.56	14.18	14.05	14.67	15.15
	8H	15.78	16.34	16.29	16.85	17.34	13.84	14.40	14.35	14.91	15.40
	12H	15.86	16.36	16.37	16.85	17.42	14.07	14.56	14.58	15.05	15.62
12H	4H	15.29	15.96	15.77	16.44	16.92	12.88	13.56	13.36	14.03	14.51
	6H	15.66	16.22	16.18	16.73	17.22	13.61	14.17	14.12	14.68	15.17
	8H	15.82	16.32	16.33	16.81	17.38	13.94	14.44	14.45	14.93	15.50