

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: P1061643

Luminaire Tested: S125RDRP-S375D930-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061643
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-84)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S375D930-X4F0-XX-UDD-BVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

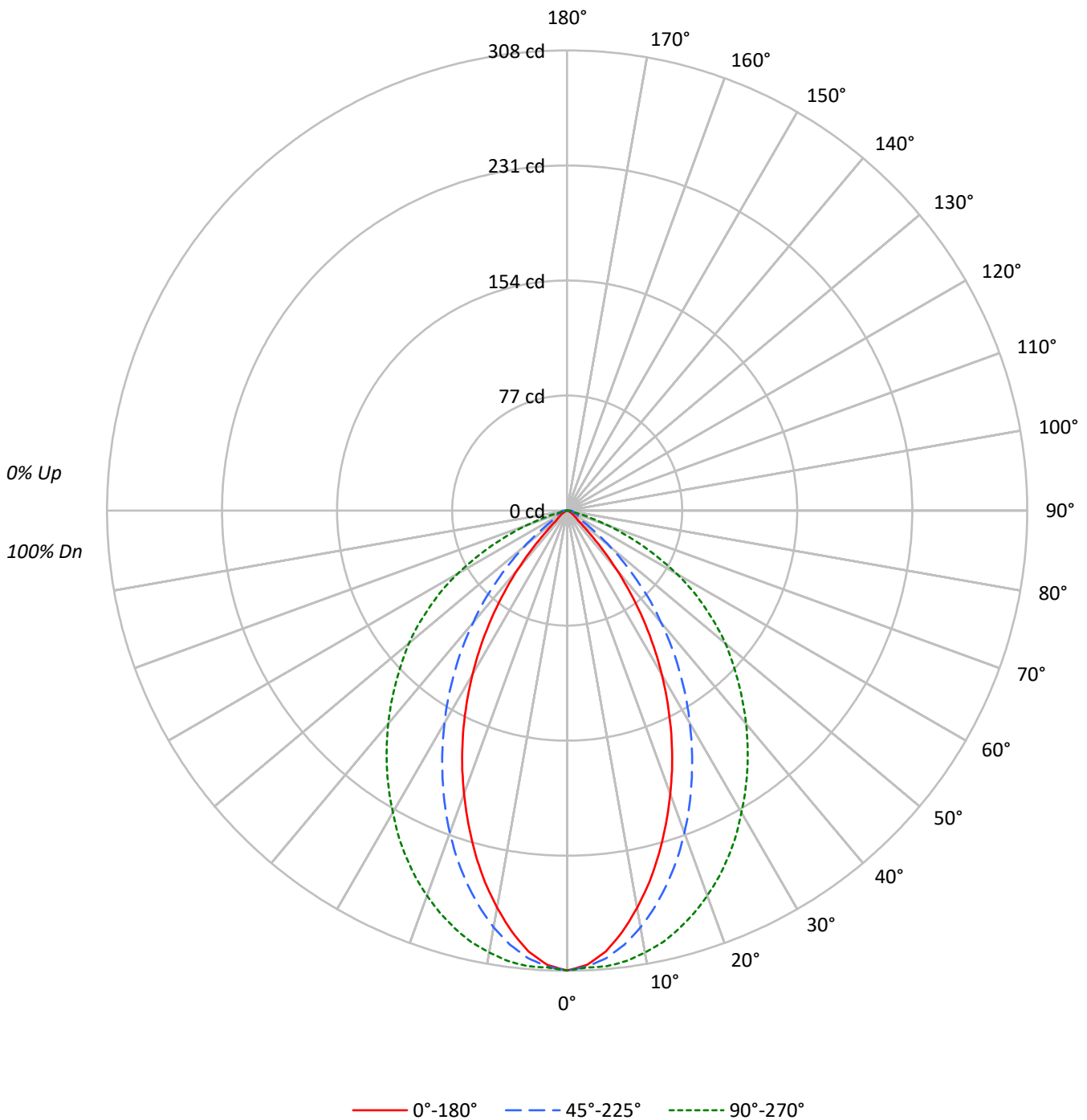
Lumens per Lamp: N/A
Luminaire Lumens: 398.3 lumens
Efficiency: N/A
Efficacy: 31.9 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80
3	98	89	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	67	74	70	67	65
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59
6	80	69	62	57	78	68	61	56	67	60	56	65	60	56	64	59	55	53
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45
9	67	55	48	44	65	55	48	44	54	48	43	53	47	43	52	47	43	41
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	44	40	38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2119	2119	2119
5°	2047	2078	2116
10°	1887	1980	2100
15°	1694	1843	2065
20°	1479	1682	2010
25°	1253	1500	1941
30°	1007	1305	1855
35°	745	1101	1768
40°	461	879	1675
45°	180	643	1575
50°	85	403	1484
55°	61	173	1347
60°	43	123	1168
65°	28	129	909
70°	28	117	572
75°	37	117	181
80°	56	135	123
85°	79	269	190

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1575 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.2	7.1
10°-20°	73.1	18.4
20°-30°	93.2	23.4
30°-40°	86.7	21.8
40°-50°	59.7	15.0
50°-60°	33.8	8.5
60°-70°	16.0	4.0
70°-80°	5.0	1.3
80°-90°	2.6	0.7
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°	194.5	48.8
0°-40°	281.3	70.6
0°-60°	374.7	94.1
0°-90°	398.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	398.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	308	308	308	308	308	
5°	296	300	301	303	306	27
15°	238	246	259	278	290	66
25°	165	176	197	230	256	75
35°	89	101	131	176	210	55
45°	18	29	66	119	162	17
55°	5	6	14	69	112	5
65°	2	2	8	25	56	2
75°	1	3	4	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°	307.8	307.8	307.8	307.8	307.8
2.5°	304.4	307.5	305.4	305.8	306.1
5°	296.2	300.3	300.7	303.4	306.1
7.5°	284.2	289.4	293.1	299.6	304.1
10°	269.9	276.0	283.2	293.8	300.3
12.5°	254.5	261.7	271.6	286.6	295.9
15°	237.7	245.6	258.6	278.1	289.7
17.5°	219.9	228.8	244.6	267.8	282.5
20°	201.8	211.4	229.5	256.2	274.3
22.5°	183.7	193.6	213.8	243.5	265.4
25°	164.9	175.5	197.4	230.5	255.5
27.5°	145.7	156.7	180.9	217.2	244.9
30°	126.6	138.2	164.2	203.5	233.3
32.5°	107.7	119.4	147.8	189.8	222.0
35°	88.6	100.9	131.0	175.8	210.4
37.5°	69.4	82.8	114.6	161.4	198.4
40°	51.3	64.0	97.8	147.4	186.4
42.5°	34.2	46.5	82.8	133.4	174.1
45°	18.5	29.4	66.0	119.4	161.8
47.5°	9.9	15.7	51.6	105.7	149.8
50°	7.9	8.9	37.6	93.0	138.5
52.5°	6.5	7.2	24.6	81.1	125.5
55°	5.1	5.8	14.4	68.8	112.2
57.5°	4.1	4.8	9.2	57.1	99.2
60°	3.1	3.8	8.9	45.8	84.8
62.5°	2.4	2.7	8.2	35.2	69.8
65°	1.7	2.1	7.9	24.6	55.8
67.5°	1.4	1.7	7.2	15.7	41.7
70°	1.4	1.4	5.8	10.3	28.4
72.5°	1.4	2.4	5.1	6.8	17.1
75°	1.4	3.1	4.4	4.8	6.8
77.5°	1.4	3.4	3.8	3.8	3.8
80°	1.4	3.1	3.4	3.4	3.1
82.5°	1.4	2.7	3.1	3.4	2.7
85°	1.0	2.7	3.4	3.1	2.4
87.5°	1.0	2.7	3.1	2.7	1.7
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	0.00	0.00	0.00	0.00	0.00	11.85	13.14	12.22	13.46	13.77
	3H	0.00	0.00	0.00	0.00	0.00	12.57	13.72	12.95	14.05	14.41
	4H	0.00	0.00	0.00	0.00	0.00	12.60	13.66	13.00	14.01	14.39
	6H	0.00	0.00	0.00	0.00	0.00	12.55	13.52	12.96	13.89	14.29
	8H	0.00	0.00	0.00	0.00	0.00	12.52	13.45	12.95	13.84	14.24
	12H	0.00	0.00	0.00	0.00	0.00	12.51	13.39	12.94	13.77	14.20
4H	2H	0.00	0.00	0.00	0.00	0.00	11.64	12.71	12.05	13.06	13.44
	3H	0.00	0.00	0.00	0.00	0.00	12.40	13.27	12.81	13.67	14.08
	4H	0.00	0.00	0.00	0.00	0.00	12.43	13.20	12.87	13.62	14.07
	6H	0.00	0.17	0.00	0.61	1.08	12.41	13.08	12.87	13.52	13.99
	8H	0.08	0.71	0.55	1.15	1.62	12.39	13.02	12.86	13.46	13.93
	12H	0.63	1.18	1.12	1.66	2.14	12.40	12.95	12.89	13.43	13.91
8H	4H	0.00	0.24	0.09	0.69	1.16	12.31	12.94	12.78	13.38	13.85
	6H	1.18	1.69	1.69	2.19	2.67	12.30	12.81	12.81	13.31	13.79
	8H	1.97	2.43	2.49	2.94	3.43	12.31	12.77	12.84	13.29	13.78
	12H	2.79	3.19	3.30	3.68	4.26	12.37	12.78	12.89	13.27	13.84
12H	4H	0.00	0.39	0.32	0.87	1.35	12.27	12.82	12.76	13.30	13.78
	6H	1.55	2.01	2.07	2.52	3.02	12.26	12.71	12.78	13.23	13.72
	8H	2.53	2.93	3.05	3.43	4.00	12.30	12.71	12.82	13.20	13.77