

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1061598

Luminaire Tested: S125RDR-S375D830-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061598
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: S125RDR-S375D830-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, 80 CRI LEDS
Ballast/Driver: -

Summary

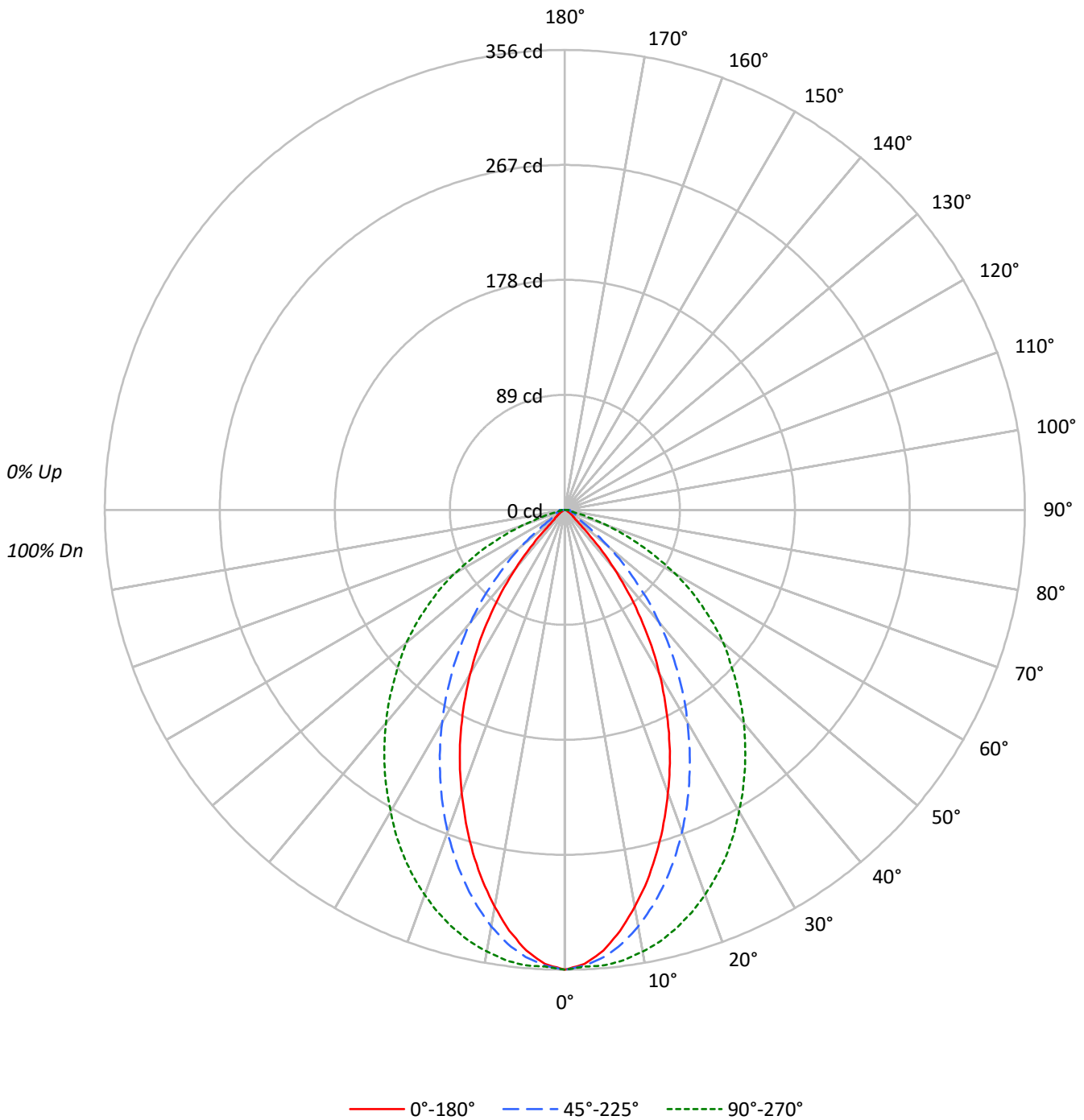
Lumens per Lamp: N/A
Luminaire Lumens: 460.5 lumens
Efficiency: N/A
Efficacy: 36.8 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 12.5
Input Voltage (V): 120
Input Current (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

TEST NUMBER: P1061598

CATALOG NUMBER: S125RDR-S375D830-X4F0-XX-UDD-BVL-W

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°	2450	2450	2450
5°	2367	2402	2446
10°	2181	2289	2427
15°	1959	2131	2387
20°	1709	1944	2323
25°	1448	1734	2244
30°	1163	1509	2144
35°	861	1273	2044
40°	533	1017	1937
45°	208	743	1821
50°	97	466	1715
55°	71	199	1557
60°	50	142	1351
65°	33	148	1051
70°	32	135	660
75°	43	136	210
80°	63	159	143
85°	95	316	221

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1821 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.6	7.1
10°-20°	84.6	18.4
20°-30°	107.7	23.4
30°-40°	100.2	21.8
40°-50°	69.0	15.0
50°-60°	39.1	8.5
60°-70°	18.5	4.0
70°-80°	5.8	1.3
80°-90°	3.0	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°	224.9	48.8
0°-40°	325.1	70.6
0°-60°	433.2	94.1
0°-90°	460.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	460.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	356	356	356	356	356	
5°	342	347	348	351	354	32
15°	275	284	299	322	335	77
25°	191	203	228	266	295	87
35°	102	117	151	203	243	63
45°	21	34	76	138	187	20
55°	6	7	17	80	130	5
65°	2	2	9	28	64	2
75°	2	4	5	6	8	2
85°	1	3	4	4	3	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	355.9	355.9	355.9	355.9	355.9
2.5°	351.9	355.5	353.1	353.5	353.9
5°	342.4	347.2	347.6	350.7	353.9
7.5°	328.6	334.5	338.9	346.4	351.5
10°	312.0	319.1	327.4	339.7	347.2
12.5°	294.2	302.5	314.0	331.4	342.0
15°	274.8	283.9	298.9	321.5	334.9
17.5°	254.3	264.5	282.7	309.6	326.6
20°	233.3	244.4	265.3	296.2	317.1
22.5°	212.3	223.8	247.1	281.5	306.8
25°	190.6	202.9	228.2	266.5	295.4
27.5°	168.5	181.1	209.2	251.1	283.1
30°	146.3	159.8	189.8	235.3	269.7
32.5°	124.6	138.0	170.8	219.5	256.6
35°	102.4	116.7	151.4	203.2	243.2
37.5°	80.3	95.7	132.5	186.6	229.3
40°	59.3	73.9	113.1	170.4	215.5
42.5°	39.5	53.8	95.7	154.2	201.3
45°	21.4	34.0	76.3	138.0	187.0
47.5°	11.5	18.2	59.7	122.2	173.2
50°	9.1	10.3	43.5	107.6	160.1
52.5°	7.5	8.3	28.5	93.7	145.1
55°	5.9	6.7	16.6	79.5	129.7
57.5°	4.7	5.5	10.7	66.0	114.7
60°	3.6	4.3	10.3	53.0	98.1
62.5°	2.8	3.2	9.5	40.7	80.7
65°	2.0	2.4	9.1	28.5	64.5
67.5°	1.6	2.0	8.3	18.2	48.2
70°	1.6	1.6	6.7	11.9	32.8
72.5°	1.6	2.8	5.9	7.9	19.8
75°	1.6	3.6	5.1	5.5	7.9
77.5°	1.6	4.0	4.3	4.3	4.3
80°	1.6	3.6	4.0	4.0	3.6
82.5°	1.6	3.2	3.6	4.0	3.2
85°	1.2	3.2	4.0	3.6	2.8
87.5°	1.2	3.2	3.6	3.2	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)