

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: P1061607

Luminaire Tested: S125RDR-S375D835-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061607
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-S375D835-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: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

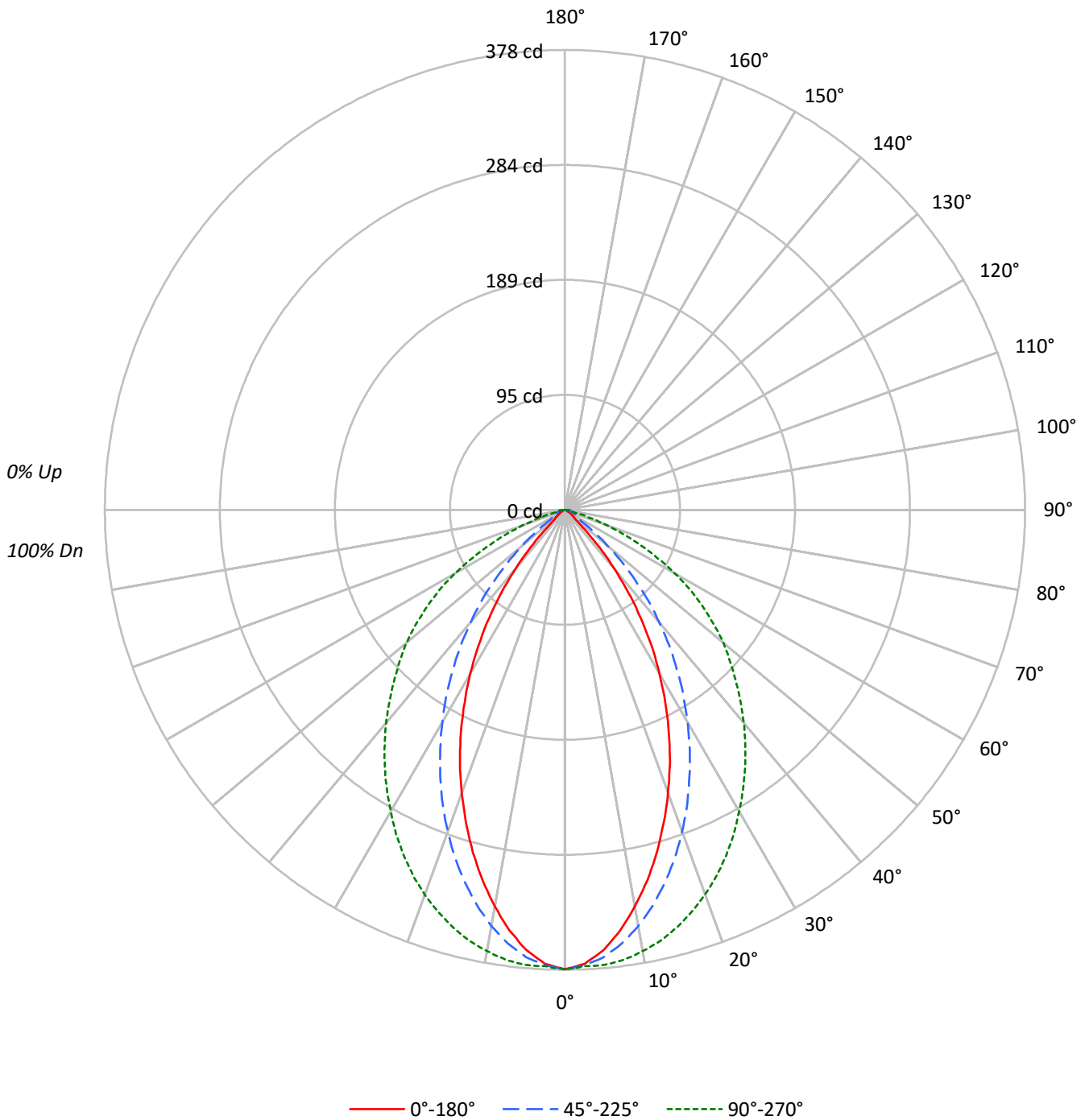
Lumens per Lamp: N/A
Luminaire Lumens: 488.5 lumens
Efficiency: N/A
Efficacy: 39.1 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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

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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	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°	2600	2600	2600
5°	2511	2549	2595
10°	2314	2429	2575
15°	2079	2261	2533
20°	1813	2063	2466
25°	1536	1839	2381
30°	1234	1601	2275
35°	914	1351	2169
40°	565	1079	2055
45°	221	789	1932
50°	103	494	1820
55°	76	211	1652
60°	52	150	1432
65°	34	156	1114
70°	34	143	701
75°	45	146	223
80°	67	167	151
85°	103	332	229

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1932 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.6	7.1
10°-20°	89.7	18.4
20°-30°	114.3	23.4
30°-40°	106.4	21.8
40°-50°	73.2	15.0
50°-60°	41.4	8.5
60°-70°	19.6	4.0
70°-80°	6.1	1.3
80°-90°	3.2	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°	238.6	48.8
0°-40°	345.0	70.6
0°-60°	459.6	94.1
0°-90°	488.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	488.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	378	378	378	378	378	
5°	363	368	369	372	376	34
15°	292	301	317	341	355	81
25°	202	215	242	283	313	92
35°	109	124	161	216	258	67
45°	23	36	81	146	198	21
55°	6	7	18	84	138	6
65°	2	2	10	30	68	2
75°	2	4	6	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°	377.6	377.6	377.6	377.6	377.6
2.5°	373.4	377.2	374.6	375.1	375.5
5°	363.3	368.3	368.8	372.1	375.5
7.5°	348.6	354.9	359.5	367.5	373.0
10°	331.0	338.6	347.4	360.4	368.3
12.5°	312.1	320.9	333.1	351.6	362.9
15°	291.6	301.2	317.2	341.1	355.3
17.5°	269.8	280.7	300.0	328.5	346.5
20°	247.5	259.3	281.5	314.2	336.5
22.5°	225.3	237.5	262.2	298.7	325.6
25°	202.2	215.2	242.1	282.8	313.4
27.5°	178.7	192.1	221.9	266.4	300.4
30°	155.2	169.5	201.4	249.6	286.1
32.5°	132.2	146.4	181.2	232.8	272.3
35°	108.7	123.8	160.7	215.6	258.0
37.5°	85.2	101.5	140.5	198.0	243.3
40°	62.9	78.5	120.0	180.8	228.6
42.5°	42.0	57.1	101.5	163.6	213.5
45°	22.7	36.1	81.0	146.4	198.4
47.5°	12.2	19.3	63.3	129.6	183.8
50°	9.6	10.9	46.1	114.1	169.9
52.5°	8.0	8.8	30.2	99.4	154.0
55°	6.3	7.1	17.6	84.3	137.6
57.5°	5.0	5.9	11.3	70.1	121.7
60°	3.8	4.6	10.9	56.2	104.0
62.5°	2.9	3.4	10.1	43.2	85.6
65°	2.1	2.5	9.6	30.2	68.4
67.5°	1.7	2.1	8.8	19.3	51.2
70°	1.7	1.7	7.1	12.6	34.8
72.5°	1.7	2.9	6.3	8.4	21.0
75°	1.7	3.8	5.5	5.9	8.4
77.5°	1.7	4.2	4.6	4.6	4.6
80°	1.7	3.8	4.2	4.2	3.8
82.5°	1.7	3.4	3.8	4.2	3.4
85°	1.3	3.4	4.2	3.8	2.9
87.5°	1.3	3.4	3.8	3.4	2.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)