

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: P1061625

Luminaire Tested: S125RDR-S375D850-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061625
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-S375D850-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: 5000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

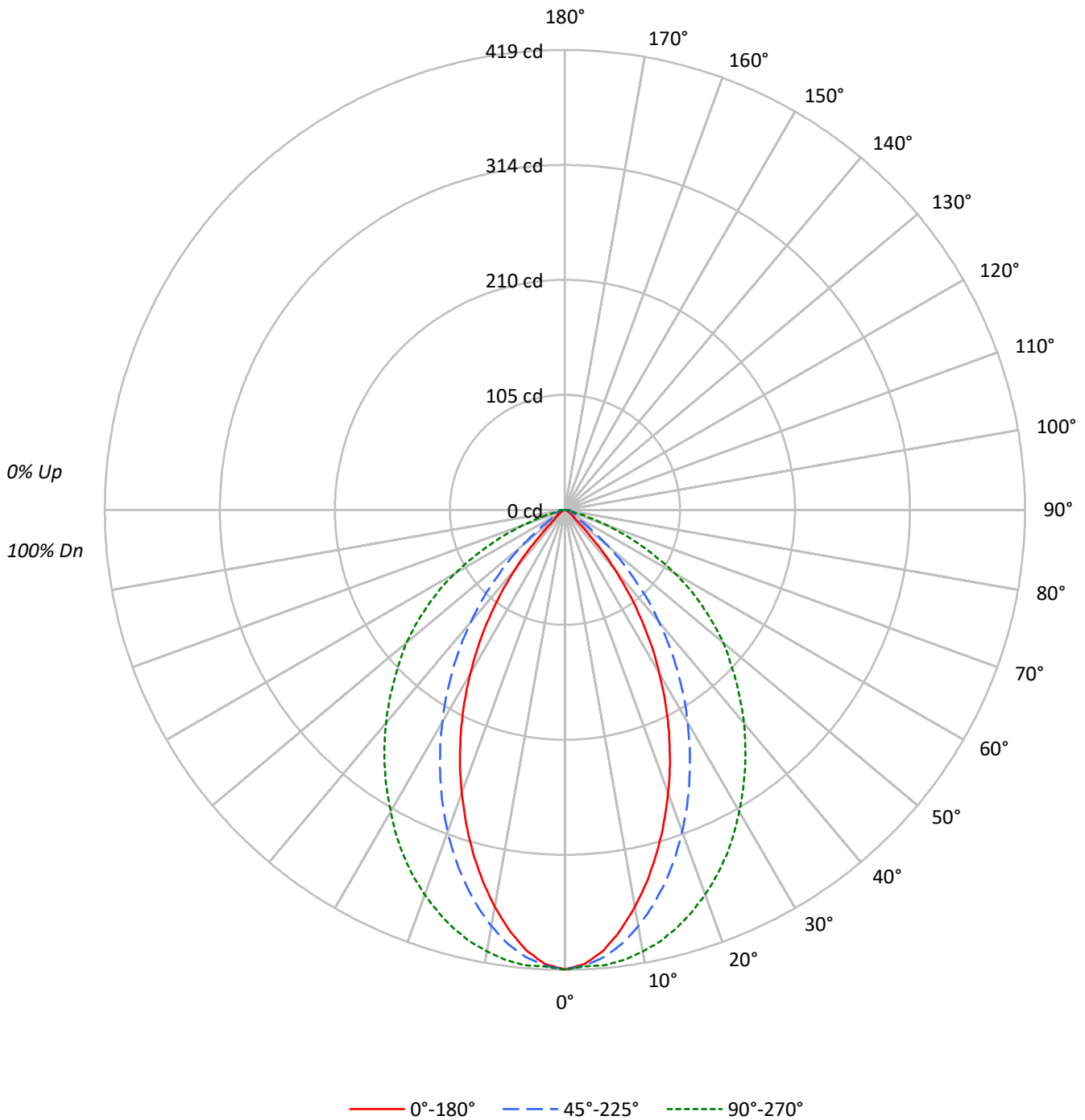
Lumens per Lamp: N/A
Luminaire Lumens: 541.8 lumens
Efficiency: N/A
Efficacy: 43.3 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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°	2883	2883	2883
5°	2785	2827	2878
10°	2567	2693	2856
15°	2305	2507	2809
20°	2011	2288	2734
25°	1704	2040	2640
30°	1368	1775	2523
35°	1013	1498	2405
40°	627	1196	2279
45°	244	874	2143
50°	115	548	2018
55°	84	234	1832
60°	58	167	1589
65°	37	174	1235
70°	38	159	777
75°	51	160	247
80°	75	186	167
85°	111	371	261

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2143 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.4	7.1
10°-20°	99.5	18.4
20°-30°	126.7	23.4
30°-40°	118.0	21.8
40°-50°	81.2	15.0
50°-60°	46.0	8.5
60°-70°	21.7	4.0
70°-80°	6.8	1.3
80°-90°	3.6	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°	264.6	48.8
0°-40°	382.6	70.6
0°-60°	509.7	94.1
0°-90°	541.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	541.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	419	419	419	419	419	
5°	403	408	409	413	416	37
15°	323	334	352	378	394	90
25°	224	239	268	314	348	102
35°	120	137	178	239	286	75
45°	25	40	90	162	220	24
55°	7	8	20	94	153	6
65°	2	3	11	34	76	3
75°	2	4	6	6	9	2
85°	1	4	5	4	3	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	418.7	418.7	418.7	418.7	418.7
2.5°	414.1	418.3	415.5	415.9	416.4
5°	402.9	408.5	409.0	412.7	416.4
7.5°	386.6	393.6	398.7	407.6	413.6
10°	367.1	375.5	385.2	399.7	408.5
12.5°	346.2	355.9	369.4	389.9	402.4
15°	323.4	334.1	351.7	378.3	394.1
17.5°	299.2	311.3	332.7	364.3	384.3
20°	274.5	287.5	312.2	348.5	373.1
22.5°	249.8	263.3	290.8	331.3	361.0
25°	224.3	238.7	268.5	313.6	347.5
27.5°	198.2	213.1	246.1	295.4	333.1
30°	172.1	188.0	223.3	276.8	317.3
32.5°	146.6	162.4	201.0	258.2	302.0
35°	120.5	137.3	178.2	239.1	286.1
37.5°	94.4	112.6	155.9	219.6	269.9
40°	69.8	87.0	133.1	200.5	253.6
42.5°	46.5	63.3	112.6	181.5	236.8
45°	25.1	40.0	89.8	162.4	220.1
47.5°	13.5	21.4	70.3	143.8	203.8
50°	10.7	12.1	51.2	126.6	188.4
52.5°	8.8	9.8	33.5	110.3	170.7
55°	7.0	7.9	19.5	93.5	152.6
57.5°	5.6	6.5	12.6	77.7	134.9
60°	4.2	5.1	12.1	62.3	115.4
62.5°	3.3	3.7	11.2	47.9	94.9
65°	2.3	2.8	10.7	33.5	75.8
67.5°	1.9	2.3	9.8	21.4	56.8
70°	1.9	1.9	7.9	14.0	38.6
72.5°	1.9	3.3	7.0	9.3	23.3
75°	1.9	4.2	6.0	6.5	9.3
77.5°	1.9	4.7	5.1	5.1	5.1
80°	1.9	4.2	4.7	4.7	4.2
82.5°	1.9	3.7	4.2	4.7	3.7
85°	1.4	3.7	4.7	4.2	3.3
87.5°	1.4	3.7	4.2	3.7	2.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)