

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: P1061615

Luminaire Tested: S125RDR-S375D840-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061615
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-87)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S375D840-X4F0-XX-UDD-BVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

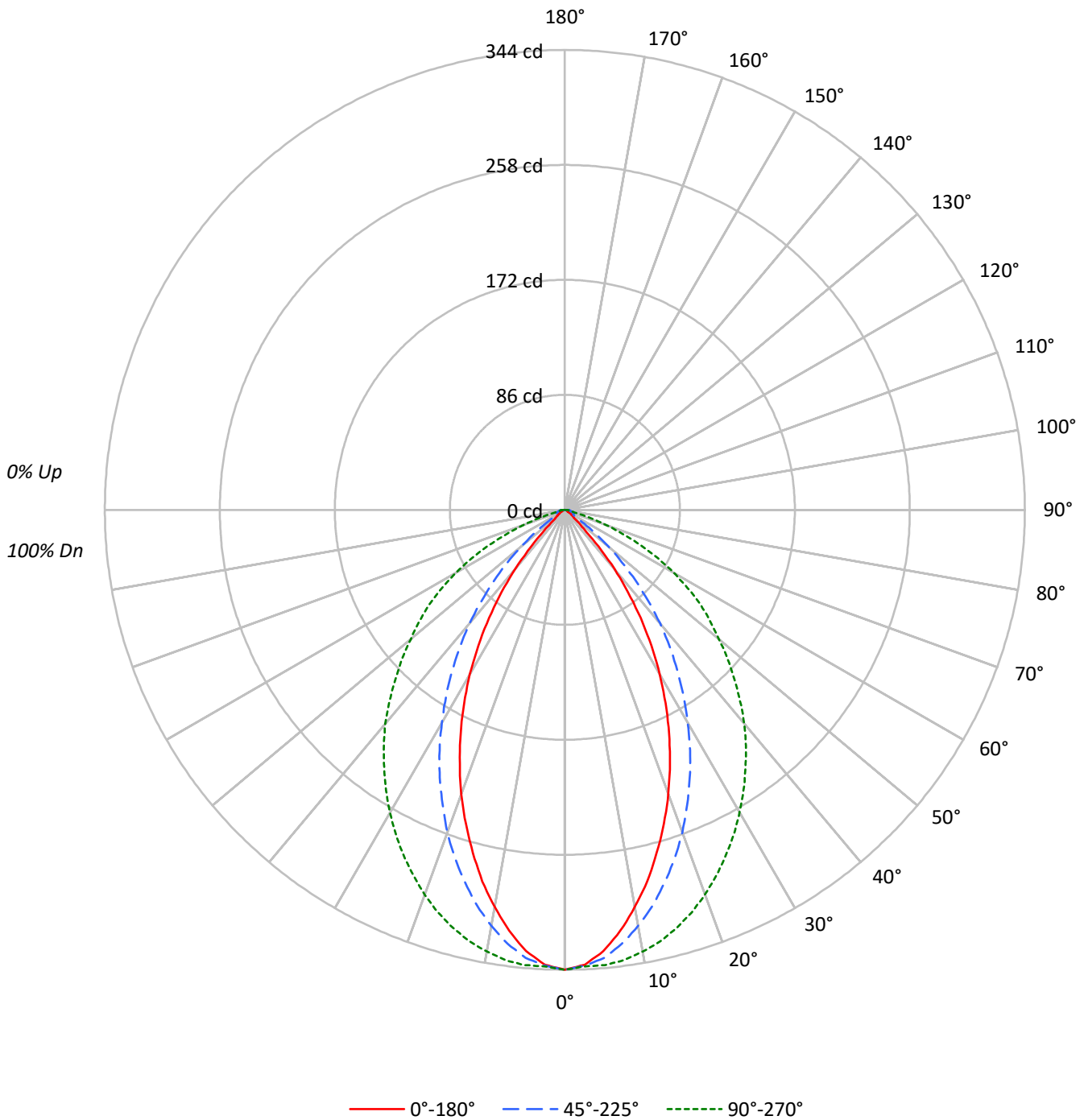
Lumens per Lamp: N/A
Luminaire Lumens: 442.4 lumens
Efficiency: N/A
Efficacy: 35.4 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81				
3	98	90	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	68	74	70	67	65				
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59				
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54				
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49				
8	71	60	52	47	69	59	52	47	58	52	47	57	51	47	55	50	47	45				
9	67	55	48	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42				
10	63	52	45	41	62	51	45	40	50	44	40	50	44	40	49	44	40	39				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2369	2369	2369
5°	2290	2324	2362
10°	2109	2209	2346
15°	1893	2056	2307
20°	1657	1881	2244
25°	1400	1680	2166
30°	1128	1461	2078
35°	830	1232	1979
40°	518	994	1877
45°	194	726	1745
50°	91	454	1611
55°	66	188	1490
60°	47	99	1289
65°	28	117	1021
70°	26	137	648
75°	35	136	202
80°	52	167	151
85°	103	269	197

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1745 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.5	7.1
10°-20°	81.7	18.5
20°-30°	104.0	23.5
30°-40°	96.8	21.9
40°-50°	66.3	15.0
50°-60°	36.5	8.3
60°-70°	17.3	3.9
70°-80°	5.4	1.2
80°-90°	2.8	0.6
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°	217.2	49.1
0°-40°	314.0	71.0
0°-60°	416.9	94.2
0°-90°	442.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	442.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	344	344	344	344	344	
5°	331	336	336	339	342	31
15°	266	274	288	310	324	74
25°	184	196	221	257	285	84
35°	99	113	147	195	236	61
45°	20	34	75	132	179	19
55°	6	6	16	74	124	5
65°	2	2	7	27	63	2
75°	1	2	5	6	8	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°	344.0	344.0	344.0	344.0	344.0
2.5°	340.6	344.0	341.4	341.4	341.8
5°	331.3	335.5	336.3	338.9	341.8
7.5°	317.7	323.2	327.4	334.6	339.7
10°	301.6	308.4	316.0	327.9	335.5
12.5°	284.7	291.9	303.3	319.8	330.4
15°	265.6	274.1	288.5	310.1	323.6
17.5°	246.1	255.4	273.2	298.6	315.6
20°	226.2	235.9	256.7	285.1	306.3
22.5°	205.4	216.0	238.9	271.1	296.1
25°	184.3	195.7	221.1	256.7	285.1
27.5°	163.1	174.9	202.9	241.9	273.6
30°	141.9	154.2	183.8	226.6	261.4
32.5°	120.3	133.9	165.2	211.4	248.7
35°	98.7	112.7	146.6	194.9	235.5
37.5°	77.5	91.9	128.4	179.2	222.4
40°	57.6	72.0	110.6	163.5	208.8
42.5°	37.3	52.5	91.9	147.4	194.0
45°	19.9	33.5	74.6	132.2	179.2
47.5°	10.6	17.8	58.0	116.9	165.2
50°	8.5	9.7	42.4	101.7	150.4
52.5°	6.8	7.6	27.1	86.0	137.2
55°	5.5	6.4	15.7	73.7	124.1
57.5°	4.2	5.1	8.9	61.4	108.9
60°	3.4	3.8	7.2	49.1	93.6
62.5°	2.1	3.0	7.2	38.1	78.4
65°	1.7	2.1	7.2	27.1	62.7
67.5°	1.7	1.7	7.2	17.8	47.0
70°	1.3	1.3	6.8	11.4	32.2
72.5°	1.3	1.3	5.9	7.6	18.6
75°	1.3	2.1	5.1	5.5	7.6
77.5°	1.3	3.4	4.7	4.7	4.2
80°	1.3	3.4	4.2	3.8	3.8
82.5°	1.3	3.4	3.4	3.4	3.0
85°	1.3	3.0	3.4	3.0	2.5
87.5°	1.3	3.0	3.0	3.0	1.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)