

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: P1061675

Luminaire Tested: S125RDR-S375D950-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061675
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-85)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S375D950-X4F0-XX-UDD-WVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

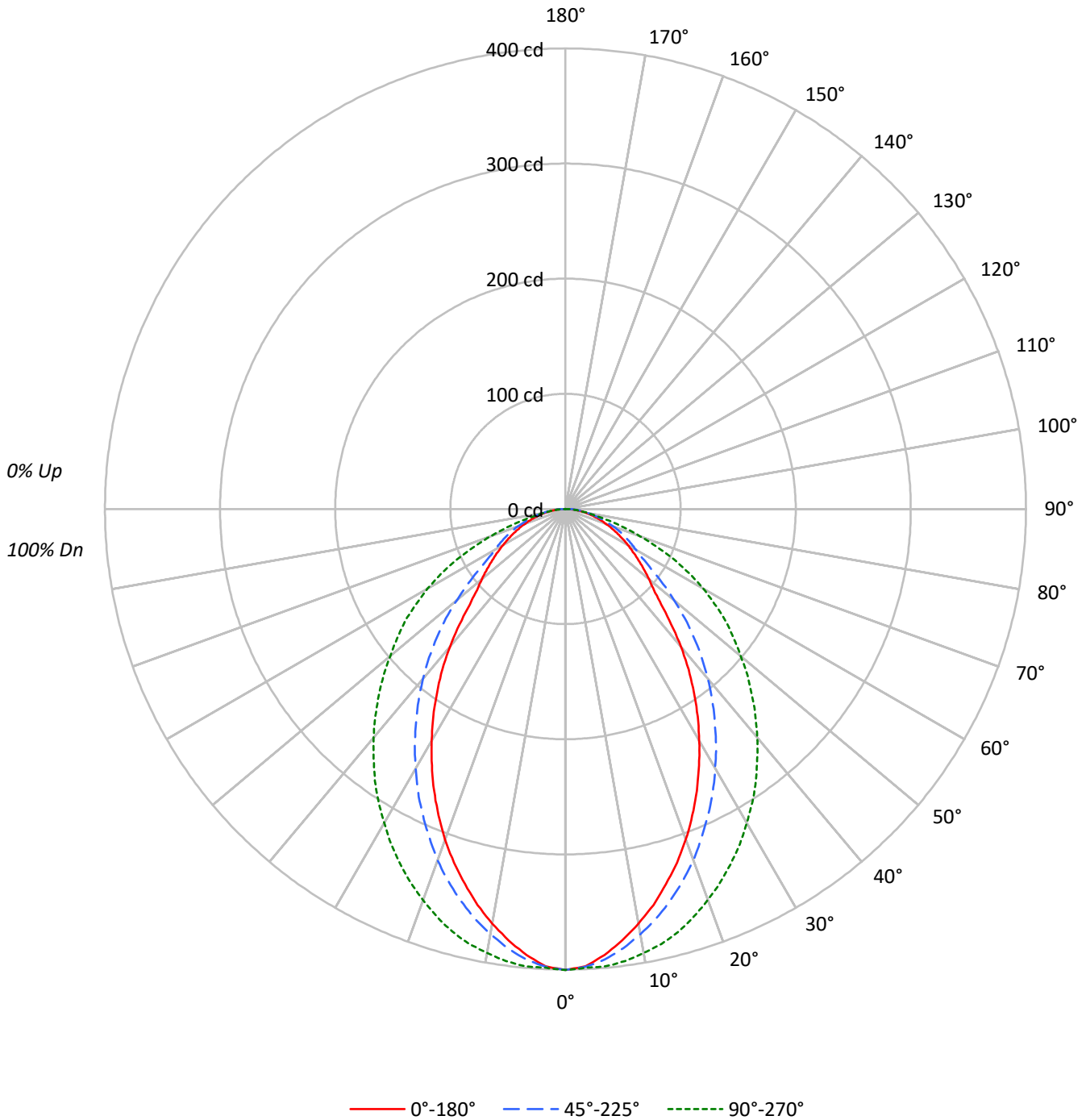
Lumens per Lamp: N/A
Luminaire Lumens: 750.6 lumens
Efficiency: N/A
Efficacy: 60.0 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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			100	
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86			86	
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74			74	
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64			64	
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56			56	
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50			50	
6	74	62	54	48	72	61	53	48	59	52	47	58	52	47	56	51	46	44			44	
7	69	57	49	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40			40	
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38	36			36	
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33			33	
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30			30	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2757	2757	2757
5°	2687	2715	2756
10°	2556	2620	2738
15°	2404	2509	2709
20°	2239	2380	2649
25°	2051	2227	2583
30°	1848	2067	2503
35°	1634	1900	2424
40°	1402	1729	2330
45°	1145	1538	2232
50°	1015	1320	2129
55°	932	1095	2041
60°	859	969	1900
65°	802	932	1694
70°	749	886	1385
75°	692	830	1022
80°	650	777	745
85°	600	758	632

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2232 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.1	4.9
10°-20°	99.8	13.3
20°-30°	137.2	18.3
30°-40°	145.4	19.4
40°-50°	126.9	16.9
50°-60°	96.4	12.8
60°-70°	64.6	8.6
70°-80°	33.3	4.4
80°-90°	10.0	1.3
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°	274.0	36.5
0°-40°	419.4	55.9
0°-60°	642.7	85.6
0°-90°	750.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	750.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	400	400	400	400	400	
5°	389	393	393	396	399	36
15°	337	344	352	368	380	95
25°	270	278	293	318	340	124
35°	194	206	226	258	288	121
45°	118	129	158	196	229	93
55°	78	80	91	134	170	70
65°	49	50	57	76	104	49
75°	26	28	31	33	38	28
85°	8	10	10	9	8	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	400.4	400.4	400.4	400.4	400.4
2.5°	397.6	400.4	398.0	398.0	398.8
5°	388.8	392.8	392.8	395.6	398.8
7.5°	378.0	382.4	384.8	391.2	396.0
10°	365.6	370.4	374.8	384.4	391.6
12.5°	352.4	357.6	364.4	376.8	386.8
15°	337.2	343.6	352.0	367.6	380.0
17.5°	322.0	328.4	338.8	357.2	371.2
20°	305.6	312.4	324.8	344.8	361.6
22.5°	288.0	295.6	308.8	331.6	351.2
25°	270.0	278.4	293.2	317.6	340.0
27.5°	251.2	261.2	277.2	303.2	328.0
30°	232.4	242.4	260.0	288.4	314.8
32.5°	213.6	224.4	243.6	273.6	302.0
35°	194.4	205.6	226.0	258.0	288.4
37.5°	175.6	186.8	209.6	242.8	273.6
40°	156.0	167.6	192.4	227.2	259.2
42.5°	136.0	148.4	175.2	211.2	244.4
45°	117.6	129.2	158.0	195.6	229.2
47.5°	104.0	111.6	140.8	179.6	214.4
50°	94.8	98.8	123.2	164.0	198.8
52.5°	85.6	88.8	106.8	148.0	184.0
55°	77.6	80.0	91.2	134.0	170.0
57.5°	69.6	72.0	79.2	120.0	153.6
60°	62.4	64.4	70.4	105.2	138.0
62.5°	55.6	57.2	63.6	91.2	121.2
65°	49.2	50.4	57.2	76.4	104.0
67.5°	42.8	44.0	50.8	62.4	85.6
70°	37.2	37.6	44.0	50.8	68.8
72.5°	31.6	32.0	37.2	41.2	52.8
75°	26.0	27.6	31.2	33.2	38.4
77.5°	21.2	23.2	25.2	26.0	26.0
80°	16.4	18.8	19.6	19.6	18.8
82.5°	12.0	14.0	14.4	13.6	12.8
85°	7.6	9.6	9.6	8.8	8.0
87.5°	3.6	5.2	5.2	4.8	3.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)