

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P1061999

Luminaire Tested: S125RDR-H1270D950-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061999
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-H1270D950-X4F0-XX-UDD-WVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

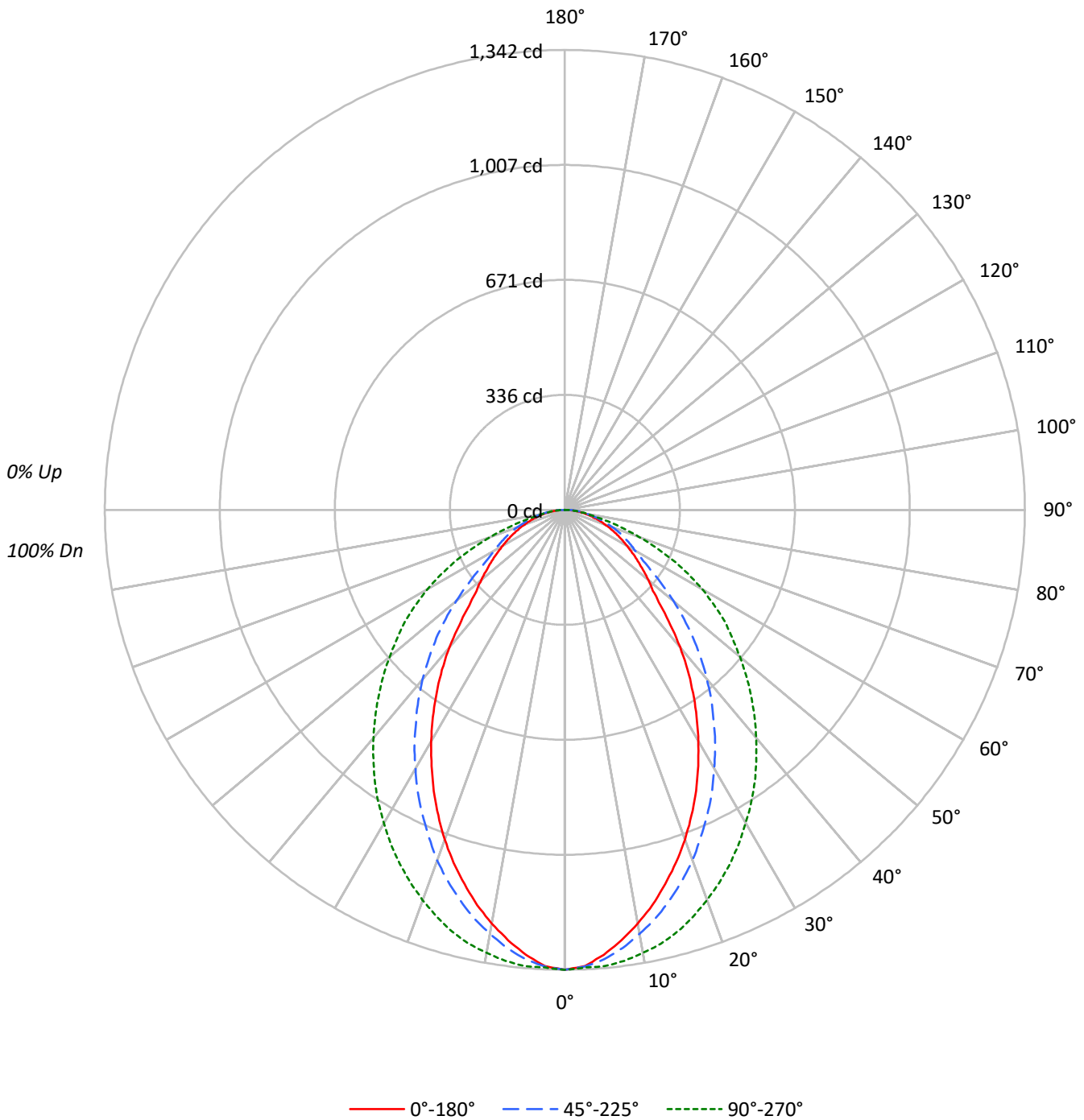
Lumens per Lamp: N/A
Luminaire Lumens: 2515.9 lumens
Efficiency: N/A
Efficacy: 68.9 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 36.5
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		
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76			74		
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66			64		
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58			56		
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52			50		
6	74	62	54	48	72	61	53	48	59	52	47	58	52	47	56	51	46			44		
7	69	57	49	43	68	56	48	43	54	47	42	53	47	42	52	46	42			40		
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38			36		
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35			33		
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32			30		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9241	9241	9241
5°	9007	9100	9239
10°	8567	8783	9177
15°	8056	8410	9079
20°	7505	7977	8880
25°	6875	7466	8658
30°	6193	6929	8389
35°	5477	6367	8125
40°	4700	5796	7809
45°	3838	5157	7480
50°	3404	4423	7137
55°	3122	3670	6840
60°	2881	3250	6370
65°	2687	3123	5679
70°	2510	2969	4642
75°	2317	2783	3424
80°	2181	2605	2498
85°	2014	2544	2117

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 7480 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.2	4.9
10°-20°	334.6	13.3
20°-30°	459.8	18.3
30°-40°	487.3	19.4
40°-50°	425.4	16.9
50°-60°	323.1	12.8
60°-70°	216.5	8.6
70°-80°	111.6	4.4
80°-90°	33.5	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°	918.5	36.5
0°-40°	1405.8	55.9
0°-60°	2154.3	85.6
0°-90°	2515.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2515.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1342	1342	1342	1342	1342	
5°	1303	1317	1317	1326	1337	122
15°	1130	1152	1180	1232	1274	317
25°	905	933	983	1065	1140	415
35°	652	689	758	865	967	406
45°	394	433	530	656	768	311
55°	260	268	306	449	570	233
65°	165	169	192	256	349	164
75°	87	92	105	111	129	93
85°	26	32	32	30	27	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1342.1	1342.1	1342.1	1342.1	1342.1
2.5°	1332.7	1342.1	1334.0	1334.0	1336.7
5°	1303.2	1316.6	1316.6	1326.0	1336.7
7.5°	1267.0	1281.8	1289.8	1311.2	1327.3
10°	1225.4	1241.5	1256.3	1288.5	1312.6
12.5°	1181.2	1198.6	1221.4	1263.0	1296.5
15°	1130.2	1151.7	1179.9	1232.1	1273.7
17.5°	1079.3	1100.8	1135.6	1197.3	1244.2
20°	1024.3	1047.1	1088.7	1155.7	1212.0
22.5°	965.3	990.8	1035.1	1111.5	1177.2
25°	905.0	933.2	982.8	1064.6	1139.6
27.5°	842.0	875.5	929.1	1016.3	1099.4
30°	779.0	812.5	871.5	966.7	1055.2
32.5°	716.0	752.2	816.5	917.1	1012.3
35°	651.6	689.1	757.5	864.8	966.7
37.5°	588.6	626.1	702.5	813.8	917.1
40°	522.9	561.8	644.9	761.5	868.8
42.5°	455.9	497.4	587.2	707.9	819.2
45°	394.2	433.1	529.6	655.6	768.2
47.5°	348.6	374.1	471.9	602.0	718.6
50°	317.8	331.2	412.9	549.7	666.3
52.5°	286.9	297.6	358.0	496.1	616.7
55°	260.1	268.1	305.7	449.1	569.8
57.5°	233.3	241.3	265.5	402.2	514.8
60°	209.2	215.9	236.0	352.6	462.6
62.5°	186.4	191.7	213.2	305.7	406.2
65°	164.9	168.9	191.7	256.1	348.6
67.5°	143.5	147.5	170.3	209.2	286.9
70°	124.7	126.0	147.5	170.3	230.6
72.5°	105.9	107.3	124.7	138.1	177.0
75°	87.1	92.5	104.6	111.3	128.7
77.5°	71.1	77.8	84.5	87.1	87.1
80°	55.0	63.0	65.7	65.7	63.0
82.5°	40.2	46.9	48.3	45.6	42.9
85°	25.5	32.2	32.2	29.5	26.8
87.5°	12.1	17.4	17.4	16.1	12.1
90°	0.0	0.0	0.0	0.0	0.0



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	14.33	15.83	14.70	16.14	16.46	18.26	19.76	18.62	20.07	20.38
	3H	15.90	17.25	16.28	17.57	17.94	19.68	21.02	20.06	21.35	21.71
	4H	16.52	17.78	16.92	18.12	18.50	20.10	21.36	20.50	21.70	22.08
	6H	17.01	18.17	17.42	18.54	18.93	20.31	21.48	20.73	21.84	22.24
	8H	17.19	18.29	17.61	18.68	19.08	20.37	21.48	20.80	21.87	22.27
	12H	17.31	18.37	17.74	18.75	19.18	20.41	21.47	20.84	21.85	22.28
4H	2H	15.07	16.33	15.47	16.68	17.06	18.39	19.64	18.79	19.99	20.37
	3H	16.85	17.89	17.26	18.29	18.69	20.00	21.04	20.41	21.44	21.84
	4H	17.58	18.52	18.02	18.94	19.38	20.52	21.46	20.96	21.88	22.32
	6H	18.22	19.04	18.68	19.48	19.94	20.87	21.68	21.32	22.13	22.59
	8H	18.45	19.21	18.91	19.66	20.12	20.96	21.73	21.43	22.17	22.64
	12H	18.62	19.30	19.10	19.78	20.25	21.04	21.72	21.52	22.20	22.67
8H	4H	17.98	18.75	18.45	19.19	19.66	20.63	21.39	21.09	21.84	22.31
	6H	18.77	19.40	19.27	19.89	20.37	21.07	21.70	21.57	22.19	22.67
	8H	19.09	19.66	19.61	20.17	20.66	21.23	21.79	21.74	22.30	22.79
	12H	19.37	19.87	19.88	20.36	20.93	21.36	21.86	21.87	22.36	22.92
12H	4H	18.03	18.71	18.51	19.19	19.66	20.63	21.31	21.11	21.79	22.26
	6H	18.85	19.42	19.37	19.93	20.42	21.08	21.65	21.60	22.16	22.65
	8H	19.25	19.75	19.76	20.24	20.81	21.29	21.79	21.80	22.29	22.85