

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: P1061934

Luminaire Tested: S125RDR-H1270D835-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061934
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-83)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-H1270D835-X4F0-XX-UDD-SVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

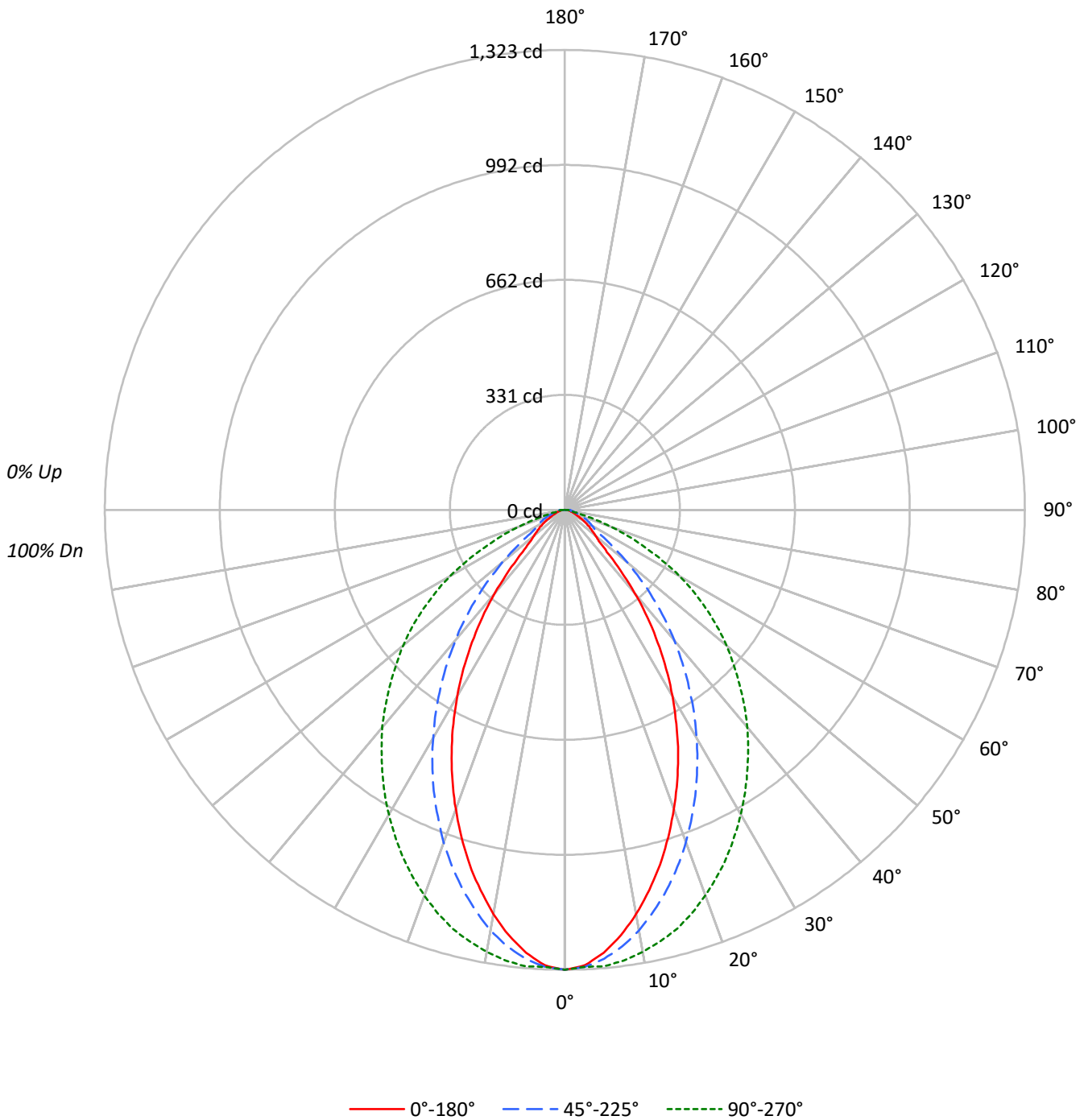
Lumens per Lamp: N/A
Luminaire Lumens: 1916.3 lumens
Efficiency: N/A
Efficacy: 52.5 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89				89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79				79
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70				70
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	62				62
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56				56
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51				51
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46				46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42				42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	40	39				39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36				36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9109	9109	9109
5°	8843	8959	9105
10°	8257	8591	9024
15°	7537	8068	8889
20°	6717	7458	8653
25°	5854	6772	8374
30°	4918	6025	8048
35°	3912	5235	7693
40°	2818	4398	7342
45°	1670	3491	6913
50°	1235	2485	6506
55°	1047	1535	5958
60°	852	1239	5247
65°	665	1145	4146
70°	566	990	2774
75°	524	859	1123
80°	559	892	781
85°	664	1335	885

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6913 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.9	6.4
10°-20°	320.3	16.7
20°-30°	418.6	21.8
30°-40°	407.8	21.3
40°-50°	305.8	16.0
50°-60°	191.7	10.0
60°-70°	99.8	5.2
70°-80°	36.1	1.9
80°-90°	14.3	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°	860.8	44.9
0°-40°	1268.5	66.2
0°-60°	1766.1	92.2
0°-90°	1916.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1916.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1323	1323	1323	1323	1323	
5°	1279	1296	1296	1306	1317	119
15°	1057	1088	1132	1202	1247	295
25°	770	813	891	1012	1102	352
35°	465	515	623	789	915	289
45°	172	222	358	554	710	144
55°	87	91	128	335	496	78
65°	41	44	70	135	254	42
75°	20	27	32	34	42	22
85°	8	14	17	16	11	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1323.0	1323.0	1323.0	1323.0	1323.0
2.5°	1311.8	1324.4	1316.0	1316.0	1316.0
5°	1279.4	1296.3	1296.3	1306.1	1317.4
7.5°	1234.4	1254.1	1266.8	1290.7	1307.5
10°	1181.0	1204.9	1228.8	1268.2	1290.7
12.5°	1120.5	1148.7	1182.4	1237.2	1271.0
15°	1057.3	1088.2	1131.8	1202.1	1247.1
17.5°	988.4	1024.9	1077.0	1161.3	1216.2
20°	916.7	953.2	1017.9	1113.5	1181.0
22.5°	845.0	884.3	954.6	1062.9	1143.0
25°	770.5	812.6	891.4	1012.3	1102.3
27.5°	694.5	738.1	825.3	960.3	1057.3
30°	618.6	663.6	757.8	904.0	1012.3
32.5°	542.7	590.5	690.3	846.4	964.5
35°	465.4	514.6	622.8	788.7	915.3
37.5°	390.9	440.1	555.4	729.7	866.1
40°	313.5	367.0	489.3	670.6	816.9
42.5°	237.6	292.4	423.2	611.6	763.4
45°	171.5	222.1	358.5	553.9	710.0
47.5°	132.2	160.3	292.4	494.9	658.0
50°	115.3	123.7	232.0	440.1	607.4
52.5°	99.8	105.4	174.3	389.4	552.5
55°	87.2	91.4	127.9	334.6	496.3
57.5°	73.1	78.7	101.2	281.2	438.7
60°	61.9	64.7	90.0	232.0	381.0
62.5°	50.6	53.4	80.1	182.8	316.3
65°	40.8	43.6	70.3	135.0	254.5
67.5°	33.7	35.1	59.1	95.6	195.4
70°	28.1	29.5	49.2	66.1	137.8
72.5°	23.9	28.1	39.4	47.8	87.2
75°	19.7	26.7	32.3	33.7	42.2
77.5°	16.9	25.3	26.7	26.7	23.9
80°	14.1	21.1	22.5	21.1	19.7
82.5°	11.2	16.9	18.3	18.3	15.5
85°	8.4	14.1	16.9	15.5	11.2
87.5°	5.6	12.7	14.1	12.7	8.4
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	7.59	8.94	7.96	9.26	9.57	17.21	18.56	17.57	18.87	19.19
	3H	8.45	9.65	8.83	9.98	10.34	18.05	19.25	18.43	19.58	19.94
	4H	8.87	9.99	9.27	10.34	10.72	18.12	19.24	18.52	19.59	19.97
	6H	9.30	10.33	9.72	10.70	11.09	18.10	19.13	18.52	19.50	19.90
	8H	9.48	10.46	9.91	10.85	11.25	18.09	19.07	18.52	19.46	19.86
	12H	9.64	10.57	10.07	10.96	11.39	18.08	19.01	18.51	19.40	19.83
4H	2H	8.55	9.67	8.96	10.02	10.41	17.07	18.19	17.47	18.54	18.92
	3H	9.61	10.52	10.02	10.93	11.33	17.98	18.90	18.39	19.30	19.70
	4H	10.17	10.99	10.60	11.41	11.85	18.08	18.90	18.52	19.32	19.76
	6H	10.77	11.48	11.23	11.92	12.39	18.11	18.82	18.57	19.26	19.73
	8H	11.01	11.67	11.48	12.12	12.59	18.11	18.77	18.58	19.22	19.69
	12H	11.23	11.82	11.72	12.30	12.77	18.12	18.71	18.61	19.19	19.66
8H	4H	10.64	11.30	11.11	11.75	12.22	18.01	18.67	18.47	19.11	19.58
	6H	11.45	12.00	11.96	12.49	12.97	18.06	18.60	18.56	19.10	19.58
	8H	11.84	12.32	12.36	12.84	13.33	18.09	18.58	18.62	19.09	19.59
	12H	12.23	12.66	12.74	13.15	13.72	18.16	18.59	18.67	19.08	19.65
12H	4H	10.69	11.28	11.18	11.76	12.23	17.97	18.56	18.46	19.04	19.51
	6H	11.58	12.06	12.10	12.58	13.07	18.03	18.51	18.55	19.03	19.52
	8H	12.07	12.50	12.58	12.99	13.56	18.10	18.53	18.61	19.02	19.59