

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



Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1061936

Luminaire Tested: S125RDRP-H1270D835-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061936
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: S125RDRP-H1270D835-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: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

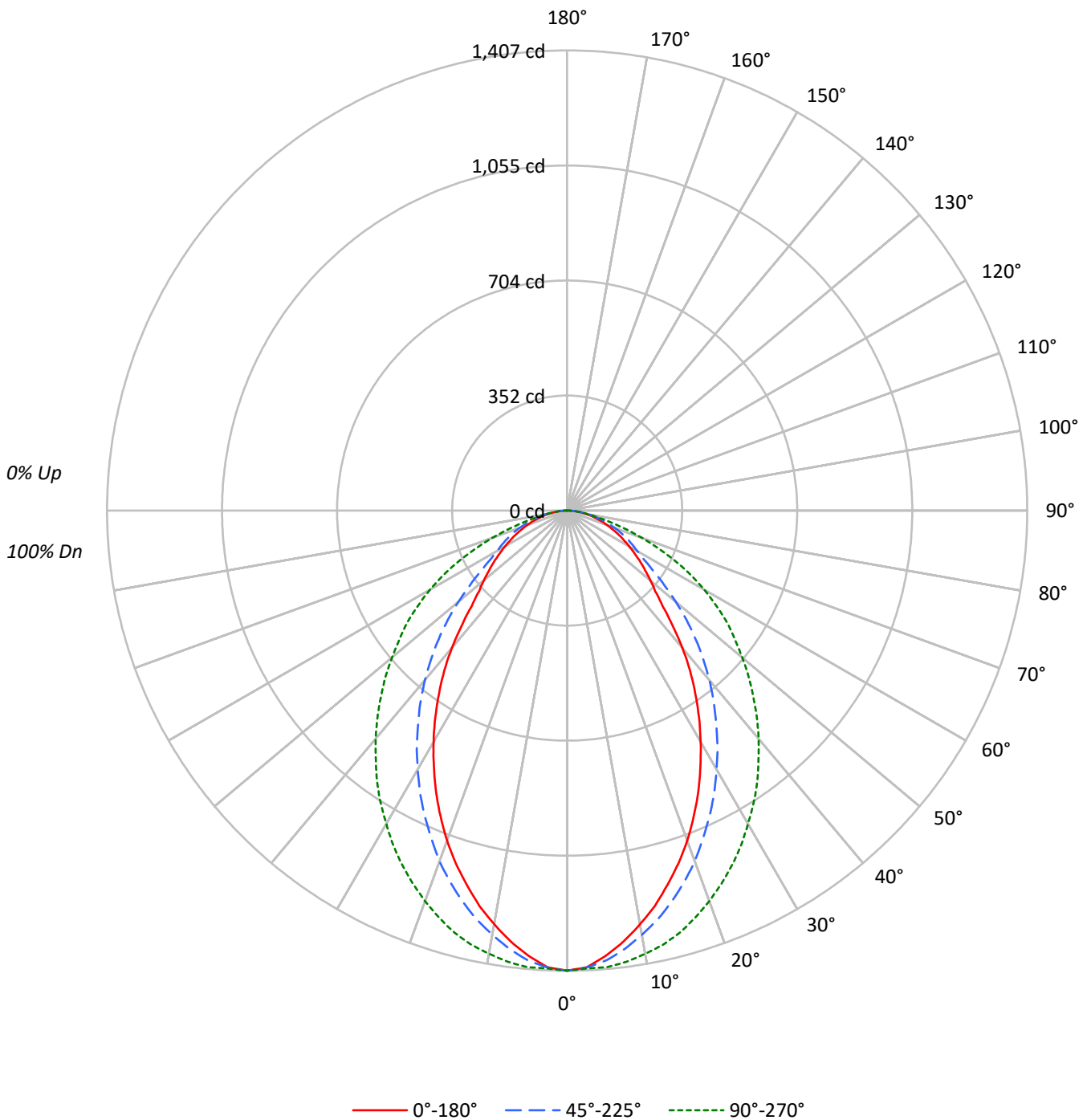
Lumens per Lamp: N/A
Luminaire Lumens: 2637.3 lumens
Efficiency: N/A
Efficacy: 72.3 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 36.5
Input Voltage (V): 120
Input Current (A_{in}): 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	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	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°	9686	9686	9686
5°	9441	9539	9684
10°	8981	9207	9620
15°	8445	8815	9517
20°	7867	8362	9309
25°	7207	7826	9075
30°	6491	7263	8793
35°	5741	6674	8517
40°	4926	6076	8185
45°	4023	5405	7841
50°	3568	4637	7482
55°	3272	3846	7170
60°	3018	3405	6677
65°	2817	3275	5953
70°	2631	3112	4866
75°	2431	2916	3589
80°	2284	2732	2621
85°	2109	2662	2220

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 7841 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.2	4.9
10°-20°	350.7	13.3
20°-30°	482.0	18.3
30°-40°	510.8	19.4
40°-50°	445.9	16.9
50°-60°	338.7	12.8
60°-70°	227.0	8.6
70°-80°	117.0	4.4
80°-90°	35.1	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°	962.8	36.5
0°-40°	1473.6	55.9
0°-60°	2258.2	85.6
0°-90°	2637.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2637.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1407	1407	1407	1407	1407	
5°	1366	1380	1380	1390	1401	128
15°	1185	1207	1237	1292	1335	332
25°	949	978	1030	1116	1195	435
35°	683	722	794	906	1013	426
45°	413	454	555	687	805	326
55°	273	281	320	471	597	244
65°	173	177	201	268	365	172
75°	91	97	110	117	135	98
85°	27	34	34	31	28	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1406.8	1406.8	1406.8	1406.8	1406.8
2.5°	1397.0	1406.8	1398.4	1398.4	1401.2
5°	1366.0	1380.1	1380.1	1389.9	1401.2
7.5°	1328.1	1343.6	1352.0	1374.5	1391.3
10°	1284.5	1301.4	1316.9	1350.6	1375.9
12.5°	1238.1	1256.4	1280.3	1323.9	1359.0
15°	1184.7	1207.2	1236.7	1291.6	1335.1
17.5°	1131.3	1153.8	1190.4	1255.0	1304.2
20°	1073.7	1097.6	1141.2	1211.4	1270.5
22.5°	1011.9	1038.6	1085.0	1165.1	1233.9
25°	948.6	978.2	1030.2	1115.9	1194.6
27.5°	882.6	917.7	973.9	1065.3	1152.4
30°	816.5	851.7	913.5	1013.3	1106.0
32.5°	750.5	788.4	855.9	961.3	1061.1
35°	683.0	722.4	794.0	906.5	1013.3
37.5°	617.0	656.3	736.4	853.1	961.3
40°	548.1	588.9	676.0	798.3	910.7
42.5°	477.8	521.4	615.6	742.0	858.7
45°	413.2	453.9	555.1	687.2	805.3
47.5°	365.4	392.1	494.7	631.0	753.3
50°	333.1	347.1	432.9	576.2	698.5
52.5°	300.8	312.0	375.2	520.0	646.5
55°	272.6	281.1	320.4	470.8	597.3
57.5°	244.5	253.0	278.3	421.6	539.7
60°	219.2	226.3	247.3	369.6	484.9
62.5°	195.3	201.0	223.5	320.4	425.8
65°	172.9	177.1	201.0	268.4	365.4
67.5°	150.4	154.6	178.5	219.2	300.8
70°	130.7	132.1	154.6	178.5	241.7
72.5°	111.0	112.4	130.7	144.8	185.5
75°	91.4	97.0	109.6	116.6	134.9
77.5°	74.5	81.5	88.5	91.4	91.4
80°	57.6	66.1	68.9	68.9	66.1
82.5°	42.2	49.2	50.6	47.8	45.0
85°	26.7	33.7	33.7	30.9	28.1
87.5°	12.6	18.3	18.3	16.9	12.6
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	14.50	15.99	14.86	16.31	16.62	18.42	19.92	18.79	20.23	20.55
	3H	16.07	17.41	16.45	17.74	18.10	19.85	21.19	20.22	21.52	21.88
	4H	16.68	17.94	17.08	18.29	18.67	20.26	21.52	20.66	21.87	22.25
	6H	17.18	18.34	17.59	18.71	19.10	20.48	21.64	20.89	22.01	22.40
	8H	17.35	18.46	17.78	18.85	19.25	20.54	21.64	20.96	22.03	22.43
	12H	17.47	18.53	17.90	18.91	19.34	20.57	21.63	21.00	22.01	22.44
4H	2H	15.23	16.49	15.63	16.84	17.22	18.55	19.81	18.95	20.16	20.54
	3H	17.01	18.06	17.42	18.46	18.86	20.16	21.20	20.57	21.60	22.01
	4H	17.75	18.69	18.18	19.10	19.54	20.69	21.63	21.12	22.04	22.48
	6H	18.38	19.20	18.84	19.65	20.11	21.03	21.85	21.49	22.29	22.75
	8H	18.61	19.38	19.08	19.82	20.29	21.13	21.89	21.59	22.34	22.81
	12H	18.79	19.47	19.27	19.95	20.42	21.20	21.88	21.68	22.36	22.83
8H	4H	18.15	18.91	18.61	19.36	19.83	20.79	21.56	21.26	22.00	22.47
	6H	18.94	19.57	19.43	20.06	20.54	21.23	21.86	21.73	22.36	22.83
	8H	19.26	19.83	19.77	20.34	20.83	21.39	21.96	21.91	22.47	22.96
	12H	19.53	20.03	20.04	20.53	21.09	21.53	22.03	22.04	22.52	23.08
12H	4H	18.19	18.88	18.67	19.35	19.83	20.79	21.48	21.28	21.95	22.43
	6H	19.02	19.59	19.53	20.10	20.58	21.25	21.82	21.76	22.33	22.81
	8H	19.41	19.92	19.92	20.41	20.97	21.46	21.96	21.97	22.45	23.02