

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: P1061531

Luminaire Tested: S125RDRP-S1270D835-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061531
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-S1270D835-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: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

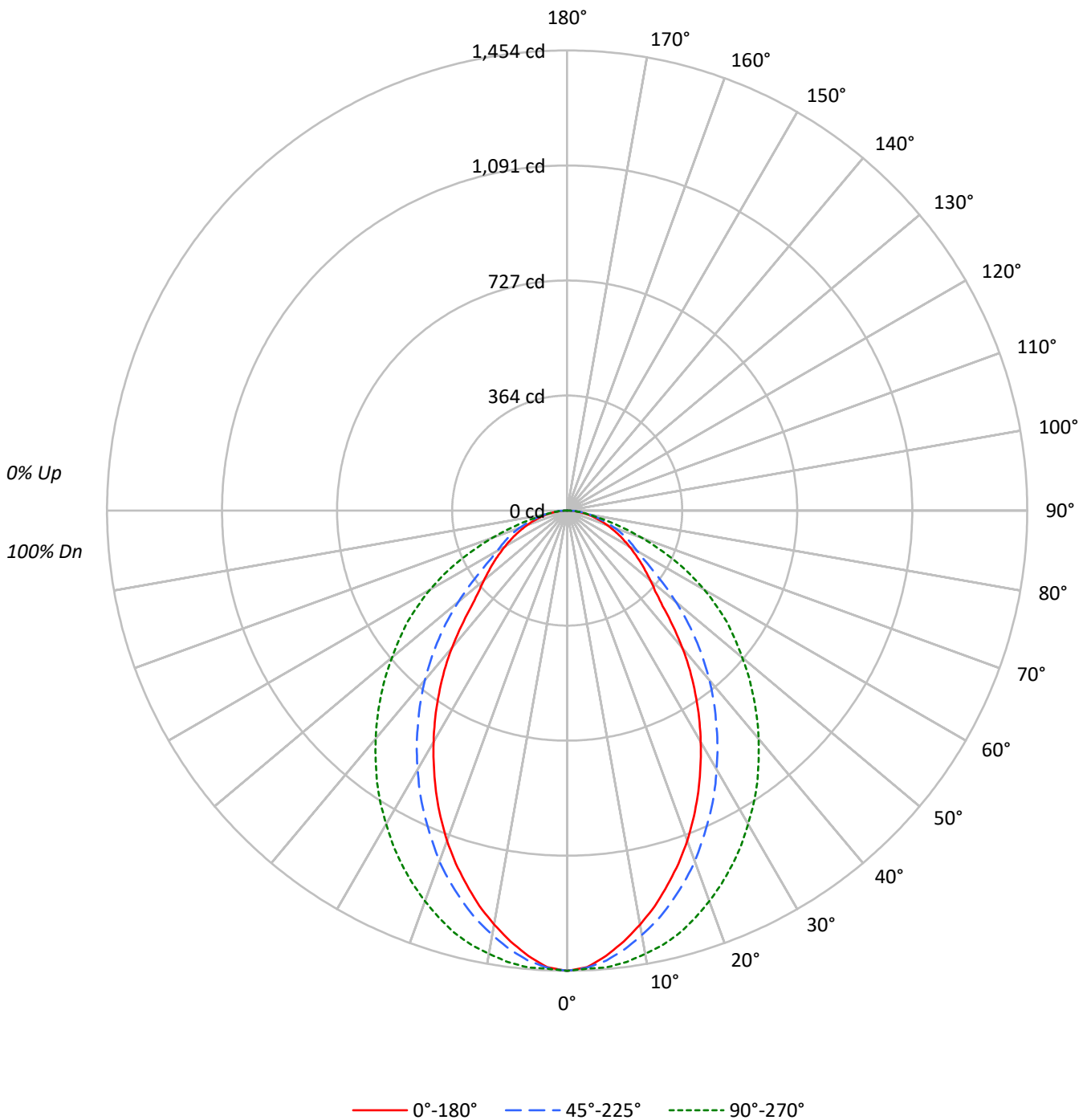
Lumens per Lamp: N/A
Luminaire Lumens: 2726.3 lumens
Efficiency: N/A
Efficacy: 65.2 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
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	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°	10013	10013	10013
5°	9760	9861	10011
10°	9284	9517	9944
15°	8731	9113	9838
20°	8133	8644	9623
25°	7450	8090	9382
30°	6711	7508	9090
35°	5935	6900	8805
40°	5093	6281	8462
45°	4159	5588	8106
50°	3688	4793	7735
55°	3384	3977	7412
60°	3120	3521	6902
65°	2911	3385	6153
70°	2720	3217	5031
75°	2511	3014	3711
80°	2363	2823	2708
85°	2180	2757	2299

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 8106 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.6	4.9
10°-20°	362.5	13.3
20°-30°	498.2	18.3
30°-40°	528.0	19.4
40°-50°	460.9	16.9
50°-60°	350.2	12.8
60°-70°	234.6	8.6
70°-80°	121.0	4.4
80°-90°	36.3	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°	995.3	36.5
0°-40°	1523.4	55.9
0°-60°	2334.5	85.6
0°-90°	2726.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2726.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1454	1454	1454	1454	1454	
5°	1412	1427	1427	1437	1448	132
15°	1225	1248	1278	1335	1380	344
25°	981	1011	1065	1154	1235	450
35°	706	747	821	937	1048	440
45°	427	469	574	710	832	337
55°	282	291	331	487	618	253
65°	179	183	208	278	378	177
75°	94	100	113	121	140	101
85°	28	35	35	32	29	31
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1454.3	1454.3	1454.3	1454.3	1454.3
2.5°	1444.1	1454.3	1445.6	1445.6	1448.5
5°	1412.2	1426.7	1426.7	1436.9	1448.5
7.5°	1372.9	1388.9	1397.6	1420.9	1438.3
10°	1327.9	1345.3	1361.3	1396.2	1422.3
12.5°	1280.0	1298.9	1323.6	1368.6	1404.9
15°	1224.8	1248.0	1278.5	1335.2	1380.2
17.5°	1169.5	1192.8	1230.6	1297.4	1348.2
20°	1110.0	1134.7	1179.7	1252.4	1313.4
22.5°	1046.1	1073.7	1121.6	1204.4	1275.6
25°	980.7	1011.2	1064.9	1153.6	1234.9
27.5°	912.4	948.7	1006.8	1101.3	1191.3
30°	844.1	880.4	944.4	1047.5	1143.4
32.5°	775.8	815.1	884.8	993.8	1096.9
35°	706.1	746.8	820.9	937.1	1047.5
37.5°	637.8	678.5	761.3	881.9	993.8
40°	566.6	608.7	698.8	825.2	941.5
42.5°	494.0	539.0	636.4	767.1	887.7
45°	427.1	469.3	573.9	710.4	832.5
47.5°	377.7	405.3	511.4	652.3	778.7
50°	344.3	358.9	447.5	595.7	722.1
52.5°	310.9	322.5	387.9	537.6	668.3
55°	281.9	290.6	331.3	486.7	617.5
57.5°	252.8	261.5	287.7	435.9	557.9
60°	226.6	233.9	255.7	382.1	501.2
62.5°	201.9	207.8	231.0	331.3	440.2
65°	178.7	183.1	207.8	277.5	377.7
67.5°	155.5	159.8	184.5	226.6	310.9
70°	135.1	136.6	159.8	184.5	249.9
72.5°	114.8	116.2	135.1	149.6	191.8
75°	94.4	100.2	113.3	120.6	139.5
77.5°	77.0	84.3	91.5	94.4	94.4
80°	59.6	68.3	71.2	71.2	68.3
82.5°	43.6	50.8	52.3	49.4	46.5
85°	27.6	34.9	34.9	32.0	29.1
87.5°	13.1	18.9	18.9	17.4	13.1
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	14.61	16.11	14.98	16.42	16.74	18.54	20.04	18.90	20.35	20.66
	3H	16.18	17.53	16.56	17.85	18.22	19.96	21.30	20.34	21.63	21.99
	4H	16.80	18.05	17.20	18.40	18.78	20.38	21.63	20.78	21.98	22.36
	6H	17.29	18.45	17.70	18.82	19.21	20.59	21.76	21.01	22.12	22.51
	8H	17.47	18.57	17.89	18.96	19.36	20.65	21.76	21.08	22.15	22.55
	12H	17.59	18.65	18.02	19.03	19.46	20.69	21.74	21.12	22.13	22.56
4H	2H	15.35	16.61	15.75	16.96	17.34	18.67	19.92	19.07	20.27	20.65
	3H	17.13	18.17	17.54	18.57	18.97	20.27	21.32	20.69	21.72	22.12
	4H	17.86	18.80	18.30	19.22	19.66	20.80	21.74	21.23	22.16	22.60
	6H	18.50	19.32	18.96	19.76	20.22	21.14	21.96	21.60	22.41	22.87
	8H	18.73	19.49	19.19	19.94	20.40	21.24	22.01	21.71	22.45	22.92
	12H	18.90	19.58	19.38	20.06	20.53	21.32	22.00	21.80	22.48	22.95
8H	4H	18.26	19.03	18.73	19.47	19.94	20.91	21.67	21.37	22.12	22.59
	6H	19.05	19.68	19.55	20.17	20.65	21.35	21.98	21.84	22.47	22.95
	8H	19.37	19.94	19.89	20.45	20.94	21.51	22.07	22.02	22.58	23.07
	12H	19.65	20.15	20.16	20.64	21.21	21.64	22.14	22.15	22.63	23.20
12H	4H	18.31	18.99	18.79	19.47	19.94	20.91	21.59	21.39	22.07	22.54
	6H	19.13	19.70	19.65	20.21	20.70	21.36	21.93	21.88	22.44	22.93
	8H	19.53	20.03	20.04	20.52	21.09	21.57	22.07	22.08	22.57	23.13