

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: P1061531

Luminaire Tested: S125RDR-S1270D835-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
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: S125RDR-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

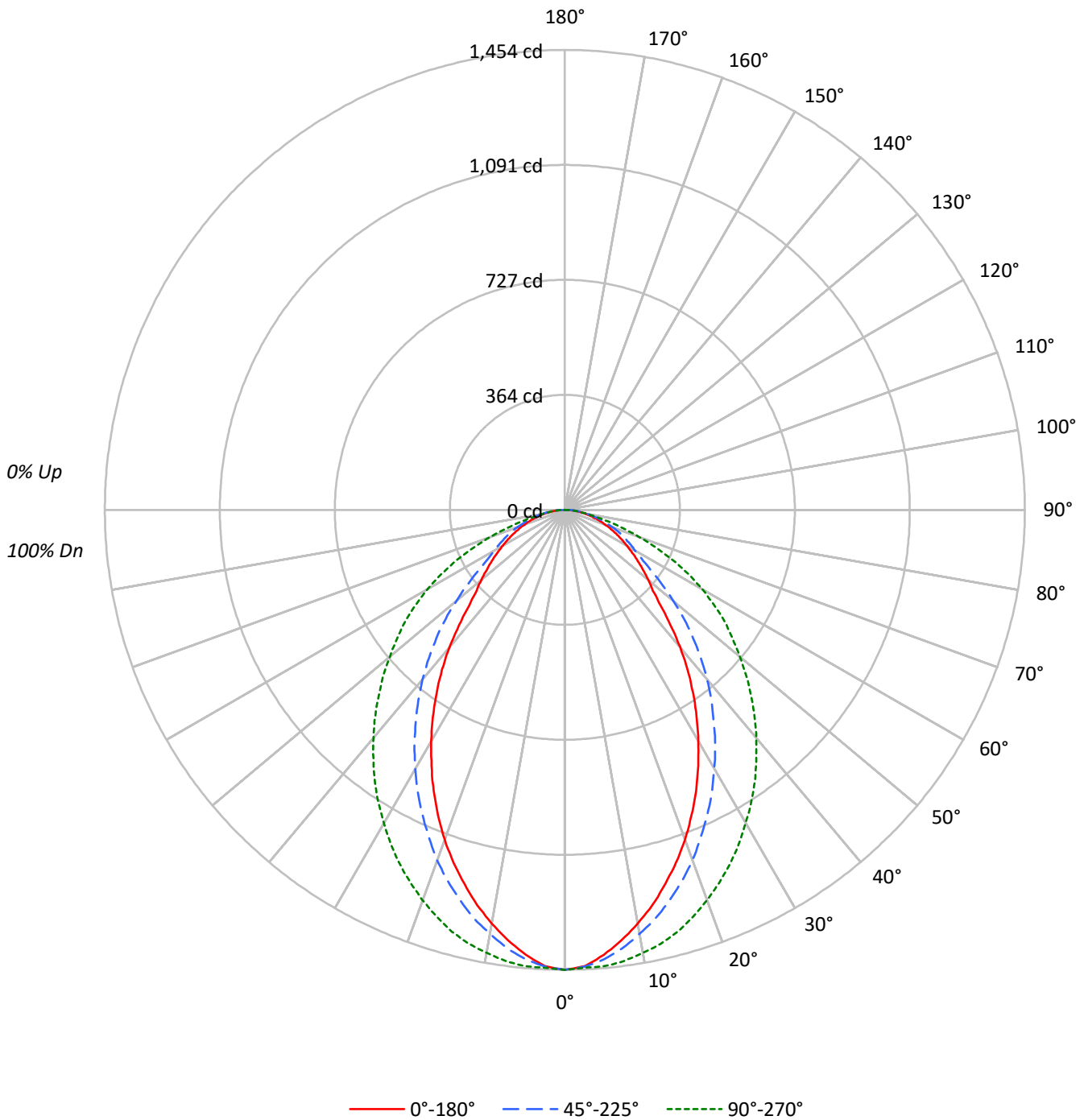
Lumens per Lamp: N/A
Luminaire Lumens: 2726.3 lumens
Efficiency: N/A
Efficacy: 65.2 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
Input Voltage (V): 120
Input Current (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	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

(END OF REPORT)