

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: P1175403

Luminaire Tested: S125RDR-H1270D840-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2019
Report Number: P1175403
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-82)
Test Lab: INNOVATION CENTER
Issue Date: 8/18/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-H1270D840-X4F0-XX-UDD-WVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

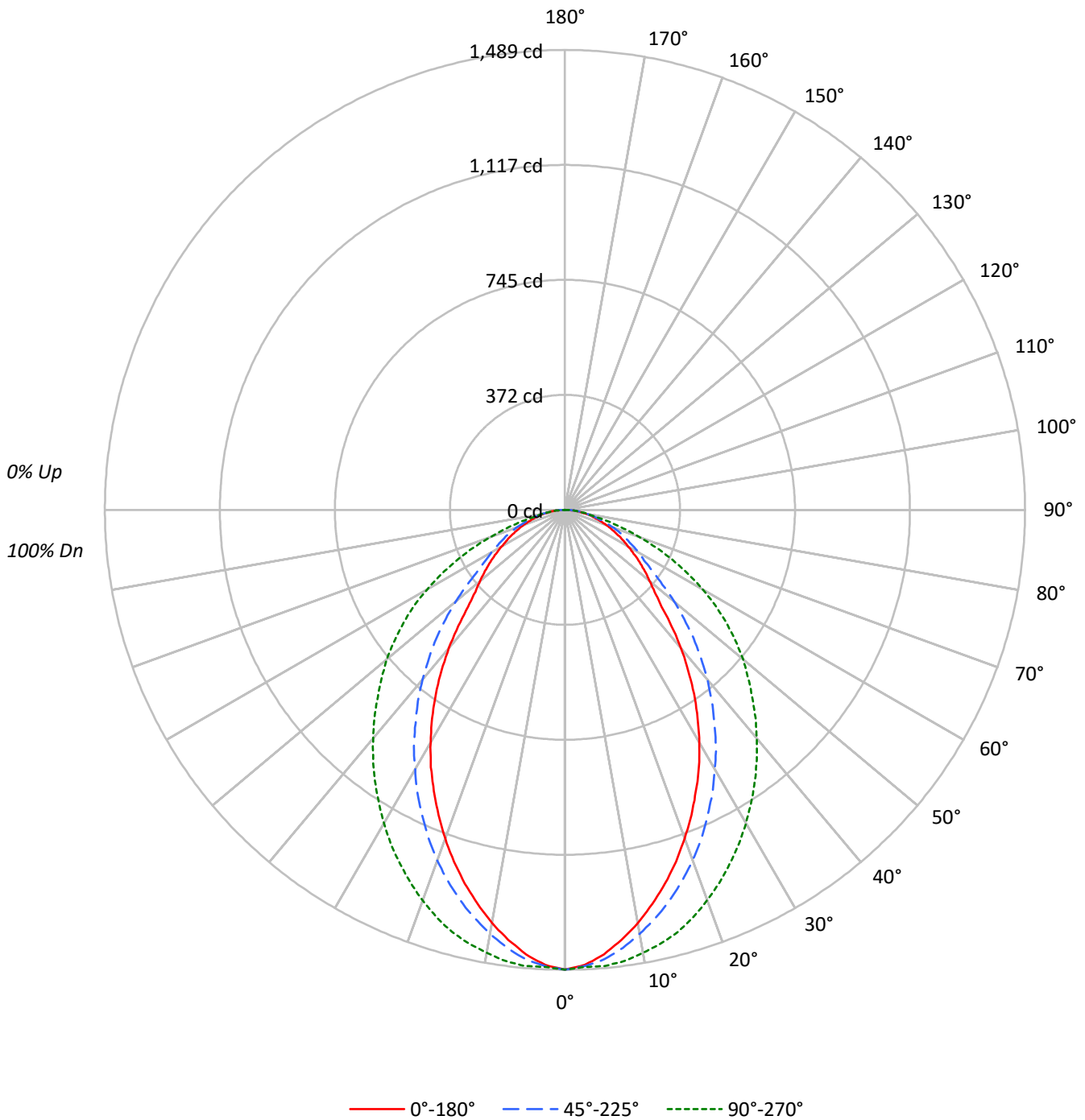
Lumens per Lamp: N/A
Luminaire Lumens: 2804.4 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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				
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	73	69	77	72	68	74	70	66	64				
4	86	75	67	61	84	74	66	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	47	59	52	47	58	51	47	56	51	46	44				
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40				
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36				
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33				
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10249	10249	10249
5°	9983	10096	10245
10°	9497	9745	10177
15°	8927	9332	10079
20°	8296	8852	9861
25°	7623	8294	9600
30°	6912	7706	9313
35°	6118	7085	9007
40°	5247	6440	8677
45°	4307	5734	8343
50°	3830	4927	8054
55°	3534	4126	7645
60°	3254	3759	7082
65°	3027	3542	6259
70°	2824	3308	5113
75°	2655	3059	3833
80°	2506	2807	2756
85°	2299	2797	2299

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 8343 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.8	4.9
10°-20°	371.5	13.2
20°-30°	511.0	18.2
30°-40°	542.0	19.3
40°-50°	474.4	16.9
50°-60°	364.0	13.0
60°-70°	242.5	8.6
70°-80°	124.3	4.4
80°-90°	36.9	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°	1020.3	36.4
0°-40°	1562.3	55.7
0°-60°	2400.7	85.6
0°-90°	2804.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2804.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1489	1489	1489	1489	1489	
5°	1444	1463	1461	1471	1482	135
15°	1252	1281	1309	1371	1414	351
25°	1003	1038	1092	1184	1264	461
35°	728	762	843	967	1072	454
45°	442	479	589	736	857	349
55°	294	301	344	510	637	264
65°	186	187	217	286	384	185
75°	100	106	115	121	144	106
85°	29	33	35	34	29	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1488.6	1488.6	1488.6	1488.6	1488.6
2.5°	1474.7	1489.9	1478.5	1479.8	1481.0
5°	1444.4	1463.3	1460.8	1470.9	1482.3
7.5°	1403.9	1424.2	1430.5	1455.7	1473.4
10°	1358.4	1381.2	1393.8	1431.7	1455.7
12.5°	1306.6	1333.2	1353.4	1402.7	1438.1
15°	1252.3	1281.4	1309.2	1371.1	1414.0
17.5°	1194.2	1223.2	1259.9	1330.6	1382.5
20°	1132.2	1163.8	1208.1	1283.9	1345.8
22.5°	1069.1	1101.9	1152.5	1235.9	1306.6
25°	1003.4	1037.5	1091.8	1184.1	1263.7
27.5°	938.9	970.5	1033.7	1132.2	1219.4
30°	869.4	902.3	969.2	1077.9	1171.4
32.5°	799.9	832.8	909.8	1023.6	1122.1
35°	727.9	762.0	842.9	966.7	1071.6
37.5°	655.8	691.2	780.9	908.6	1019.8
40°	583.8	621.7	716.5	850.4	965.4
42.5°	510.5	551.0	650.8	793.6	912.4
45°	442.3	478.9	588.9	735.5	856.8
47.5°	393.0	414.5	523.2	676.1	803.7
50°	357.6	367.7	460.0	619.2	751.9
52.5°	326.0	332.3	398.1	566.1	695.0
55°	294.4	300.8	343.7	510.5	636.9
57.5°	264.1	267.9	303.3	454.9	578.8
60°	236.3	238.8	273.0	399.3	514.3
62.5°	211.0	212.3	243.9	342.5	449.9
65°	185.8	187.0	217.4	285.6	384.2
67.5°	163.0	163.0	192.1	233.8	321.0
70°	140.3	140.3	164.3	189.6	254.0
72.5°	120.0	122.6	139.0	152.9	198.4
75°	99.8	106.1	115.0	121.3	144.1
77.5°	80.9	88.5	92.2	94.8	96.0
80°	63.2	68.2	70.8	72.0	69.5
82.5°	46.8	50.5	51.8	51.8	48.0
85°	29.1	32.9	35.4	34.1	29.1
87.5°	13.9	19.0	20.2	17.7	13.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)