

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: P1061526

Luminaire Tested: S125RDR-S1270D835-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061526
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-84)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S1270D835-X4F0-XX-UDD-BVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

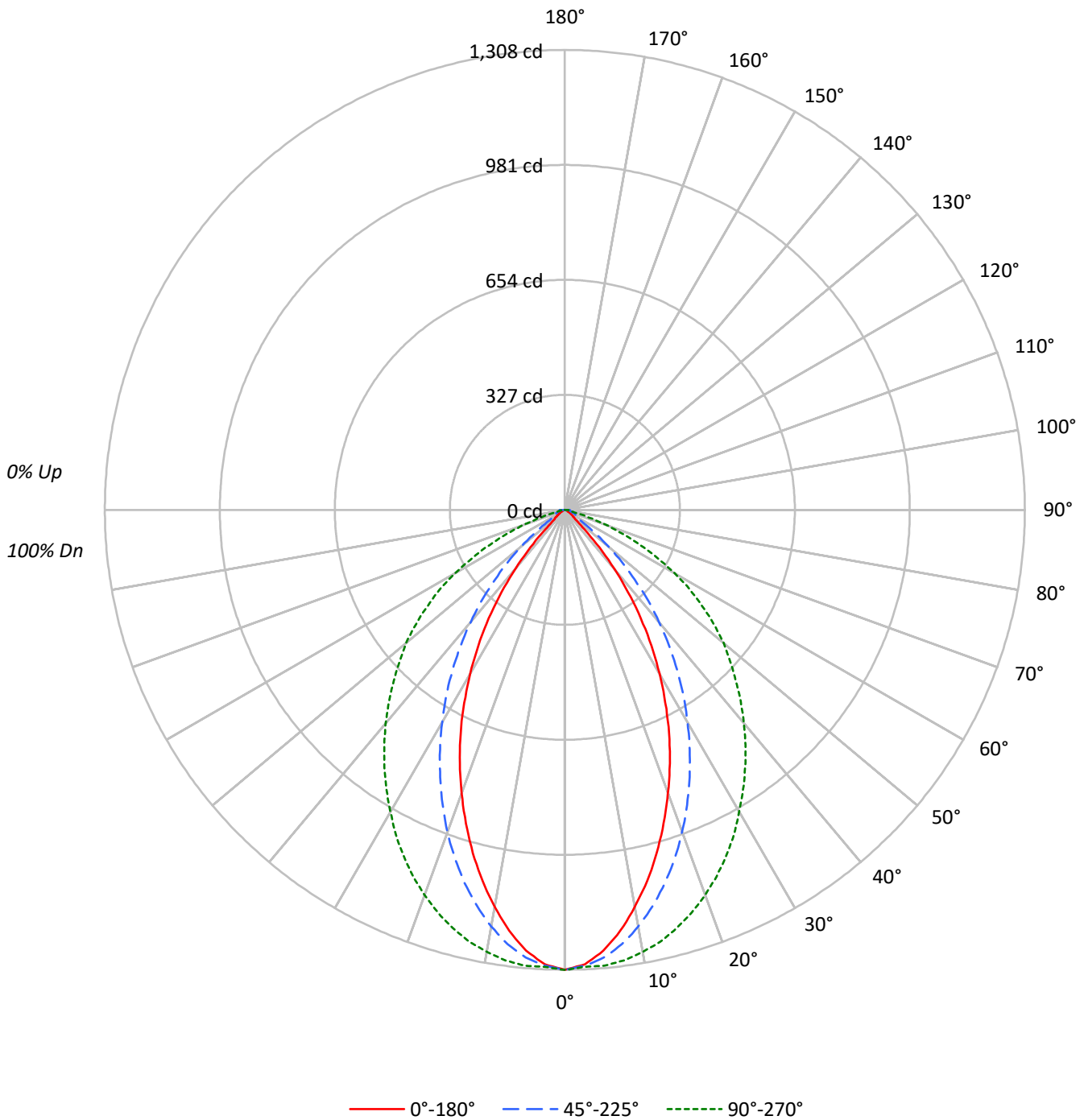
Lumens per Lamp: N/A
Luminaire Lumens: 1692.7 lumens
Efficiency: N/A
Efficacy: 40.5 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1061526

CATALOG NUMBER: S125RDR-S1270D835-X4F0-XX-UDD-BVL-W

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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80
3	98	89	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	65
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59
6	80	69	62	57	78	68	61	56	67	60	56	65	60	56	64	59	55	53
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45
9	67	55	48	44	65	55	48	44	54	48	43	53	47	43	52	47	43	41
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	44	40	38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9008	9008	9008
5°	8701	8832	8992
10°	8019	8415	8923
15°	7202	7834	8776
20°	6284	7147	8542
25°	5323	6372	8250
30°	4277	5548	7882
35°	3165	4679	7514
40°	1959	3736	7120
45°	764	2732	6695
50°	358	1713	6306
55°	262	733	5724
60°	180	521	4964
65°	119	544	3860
70°	117	497	2430
75°	154	503	774
80°	230	575	519
85°	348	1145	806

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6695 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.0	7.1
10°-20°	310.9	18.4
20°-30°	395.9	23.4
30°-40°	368.5	21.8
40°-50°	253.7	15.0
50°-60°	143.6	8.5
60°-70°	67.8	4.0
70°-80°	21.2	1.3
80°-90°	11.1	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°	826.8	48.8
0°-40°	1195.3	70.6
0°-60°	1592.6	94.1
0°-90°	1692.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1692.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1308	1308	1308	1308	1308	
5°	1259	1276	1278	1289	1301	117
15°	1010	1044	1099	1182	1231	281
25°	701	746	839	980	1086	319
35°	376	429	557	747	894	233
45°	78	125	281	507	688	74
55°	22	25	61	292	477	20
65°	7	9	33	105	237	8
75°	6	13	19	20	29	6
85°	4	12	14	13	10	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1308.3	1308.3	1308.3	1308.3	1308.3
2.5°	1293.8	1306.8	1298.1	1299.6	1301.0
5°	1258.9	1276.3	1277.8	1289.4	1301.0
7.5°	1208.0	1229.8	1245.8	1273.4	1292.3
10°	1146.9	1173.1	1203.6	1248.7	1276.3
12.5°	1081.5	1112.0	1154.2	1218.2	1257.4
15°	1010.3	1043.7	1099.0	1181.8	1231.2
17.5°	934.7	972.5	1039.4	1138.2	1200.7
20°	857.7	898.4	975.4	1088.8	1165.8
22.5°	780.6	822.8	908.5	1035.0	1128.0
25°	700.7	745.7	838.8	979.8	1085.9
27.5°	619.3	665.8	769.0	923.1	1040.8
30°	537.9	587.3	697.8	864.9	991.4
32.5°	457.9	507.3	628.0	806.8	943.4
35°	376.5	428.8	556.7	747.2	894.0
37.5°	295.1	351.8	487.0	686.1	843.1
40°	218.0	271.8	415.7	626.5	792.2
42.5°	145.4	197.7	351.8	566.9	739.9
45°	78.5	125.0	280.6	507.3	687.6
47.5°	42.2	66.9	219.5	449.2	636.7
50°	33.4	37.8	159.9	395.4	588.7
52.5°	27.6	30.5	104.7	344.5	533.5
55°	21.8	24.7	61.1	292.2	476.8
57.5°	17.4	20.4	39.2	242.8	421.6
60°	13.1	16.0	37.8	194.8	360.5
62.5°	10.2	11.6	34.9	149.7	296.5
65°	7.3	8.7	33.4	104.7	236.9
67.5°	5.8	7.3	30.5	66.9	177.3
70°	5.8	5.8	24.7	43.6	120.7
72.5°	5.8	10.2	21.8	29.1	72.7
75°	5.8	13.1	18.9	20.4	29.1
77.5°	5.8	14.5	16.0	16.0	16.0
80°	5.8	13.1	14.5	14.5	13.1
82.5°	5.8	11.6	13.1	14.5	11.6
85°	4.4	11.6	14.5	13.1	10.2
87.5°	4.4	11.6	13.1	11.6	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)