

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: P1061535

Luminaire Tested: S125RDR-S1270D840-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061535
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-S1270D840-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: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

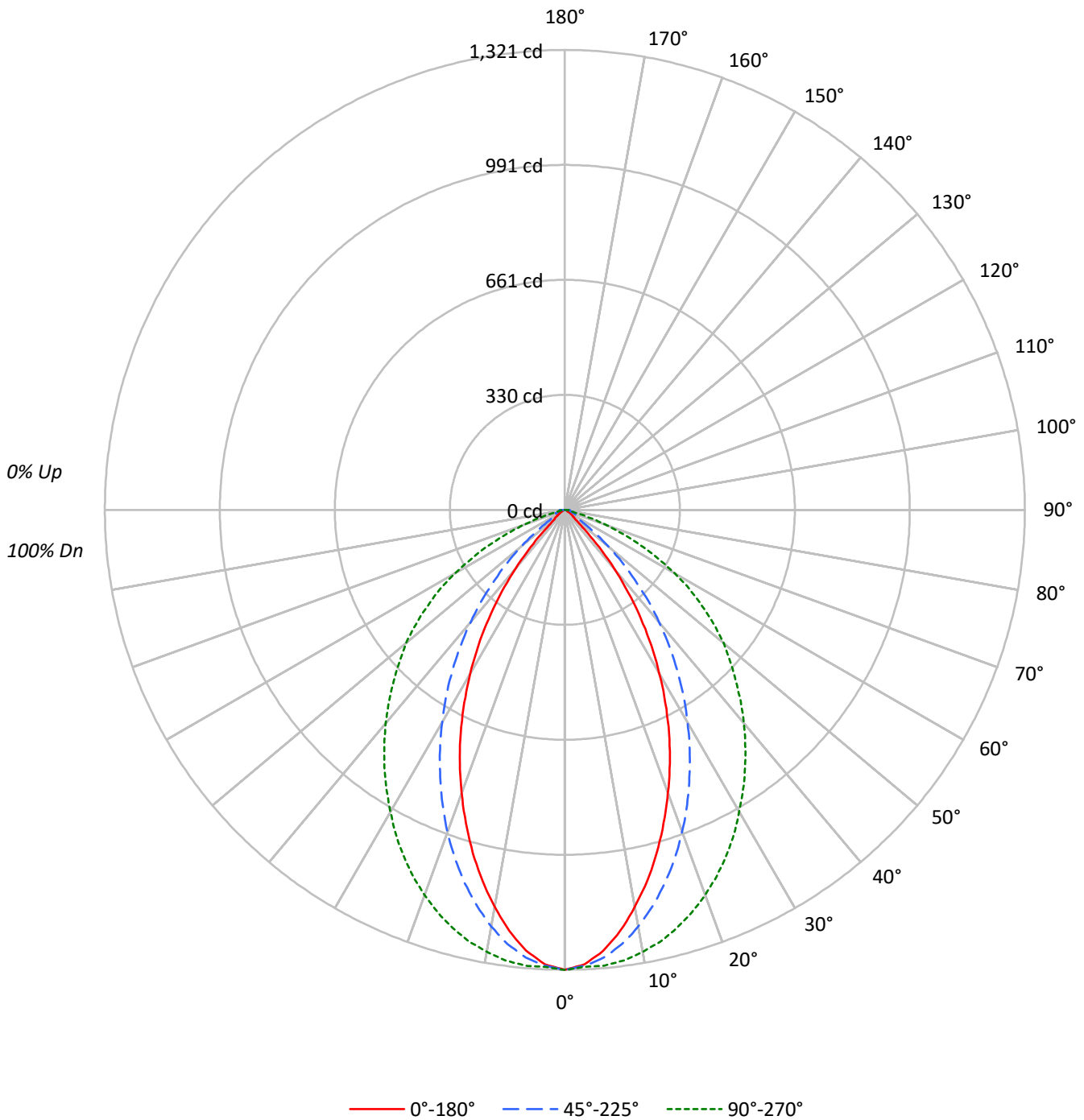
Lumens per Lamp: N/A
Luminaire Lumens: 1709.3 lumens
Efficiency: N/A
Efficacy: 40.9 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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

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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	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°	9097	9097	9097
5°	8787	8919	9081
10°	8098	8498	9011
15°	7273	7911	8863
20°	6346	7217	8626
25°	5376	6435	8331
30°	4319	5602	7960
35°	3196	4725	7588
40°	1979	3773	7191
45°	772	2759	6762
50°	362	1730	6368
55°	264	741	5780
60°	182	526	5014
65°	119	551	3899
70°	119	503	2452
75°	157	508	782
80°	234	583	523
85°	348	1161	814

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6762 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.2	7.1
10°-20°	313.9	18.4
20°-30°	399.8	23.4
30°-40°	372.2	21.8
40°-50°	256.2	15.0
50°-60°	145.0	8.5
60°-70°	68.5	4.0
70°-80°	21.4	1.3
80°-90°	11.2	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°	834.9	48.8
0°-40°	1207.1	70.6
0°-60°	1608.3	94.1
0°-90°	1709.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1709.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1321	1321	1321	1321	1321	
5°	1271	1289	1290	1302	1314	118
15°	1020	1054	1110	1194	1243	284
25°	708	753	847	989	1097	323
35°	380	433	562	754	903	235
45°	79	126	283	512	694	75
55°	22	25	62	295	482	20
65°	7	9	34	106	239	8
75°	6	13	19	21	29	6
85°	4	12	15	13	10	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1321.2	1321.2	1321.2	1321.2	1321.2
2.5°	1306.5	1319.7	1310.9	1312.4	1313.9
5°	1271.3	1288.9	1290.4	1302.1	1313.9
7.5°	1219.9	1241.9	1258.1	1286.0	1305.0
10°	1158.2	1184.7	1215.5	1261.0	1288.9
12.5°	1092.2	1123.0	1165.6	1230.2	1269.8
15°	1020.3	1054.0	1109.8	1193.5	1243.4
17.5°	943.9	982.1	1049.6	1149.4	1212.6
20°	866.1	907.2	985.0	1099.5	1177.3
22.5°	788.3	830.9	917.5	1045.2	1139.2
25°	707.6	753.1	847.0	989.4	1096.6
27.5°	625.4	672.3	776.6	932.2	1051.1
30°	543.2	593.1	704.6	873.5	1001.2
32.5°	462.4	512.3	634.2	814.7	952.7
35°	380.2	433.1	562.2	754.5	902.8
37.5°	298.0	355.3	491.8	692.9	851.4
40°	220.2	274.5	419.8	632.7	800.1
42.5°	146.8	199.6	355.3	572.5	747.2
45°	79.3	126.2	283.3	512.3	694.4
47.5°	42.6	67.5	221.7	453.6	643.0
50°	33.8	38.2	161.5	399.3	594.5
52.5°	27.9	30.8	105.7	347.9	538.8
55°	22.0	25.0	61.7	295.1	481.5
57.5°	17.6	20.6	39.6	245.2	425.7
60°	13.2	16.1	38.2	196.7	364.1
62.5°	10.3	11.7	35.2	151.2	299.5
65°	7.3	8.8	33.8	105.7	239.3
67.5°	5.9	7.3	30.8	67.5	179.1
70°	5.9	5.9	25.0	44.0	121.8
72.5°	5.9	10.3	22.0	29.4	73.4
75°	5.9	13.2	19.1	20.6	29.4
77.5°	5.9	14.7	16.1	16.1	16.1
80°	5.9	13.2	14.7	14.7	13.2
82.5°	5.9	11.7	13.2	14.7	11.7
85°	4.4	11.7	14.7	13.2	10.3
87.5°	4.4	11.7	13.2	11.7	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)