

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: P1061535

Luminaire Tested: S125RDRP-S1270D840-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
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: S125RDRP-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

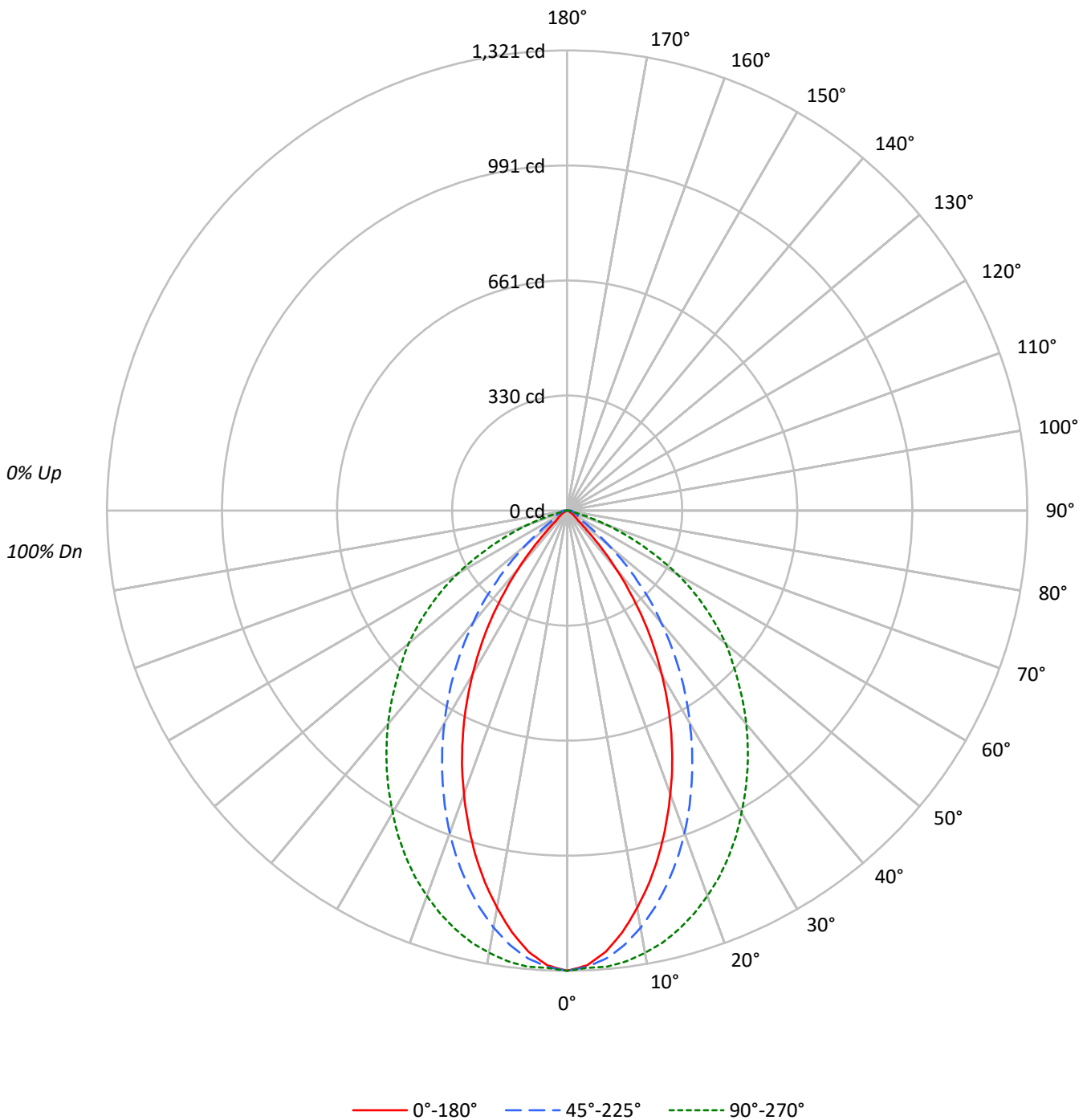
Lumens per Lamp: N/A
Luminaire Lumens: 1709.3 lumens
Efficiency: N/A
Efficacy: 40.9 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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



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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	0.00	0.00	0.00	0.23	0.55	16.92	18.21	17.28	18.52	18.84
	3H	0.00	0.24	0.00	0.57	0.94	17.64	18.78	18.02	19.11	19.47
	4H	0.00	1.06	0.40	1.41	1.80	17.66	18.72	18.06	19.07	19.46
	6H	1.27	2.24	1.68	2.61	3.01	17.61	18.59	18.03	18.96	19.35
	8H	1.91	2.83	2.34	3.22	3.63	17.59	18.51	18.02	18.90	19.31
	12H	2.50	3.38	2.93	3.76	4.19	17.57	18.45	18.00	18.84	19.27
4H	2H	1.43	2.50	1.84	2.85	3.23	16.71	17.77	17.11	18.12	18.51
	3H	2.25	3.11	2.66	3.52	3.92	17.46	18.33	17.88	18.74	19.14
	4H	3.25	4.03	3.69	4.45	4.89	17.49	18.27	17.93	18.69	19.13
	6H	4.53	5.20	5.00	5.65	6.11	17.47	18.14	17.94	18.59	19.05
	8H	5.11	5.74	5.58	6.18	6.66	17.46	18.08	17.93	18.53	19.00
	12H	5.67	6.22	6.16	6.71	7.18	17.46	18.01	17.95	18.50	18.97
8H	4H	4.67	5.29	5.14	5.74	6.21	17.38	18.00	17.85	18.45	18.92
	6H	6.23	6.73	6.73	7.23	7.71	17.37	17.87	17.87	18.37	18.85
	8H	7.02	7.47	7.54	7.99	8.48	17.38	17.83	17.90	18.35	18.84
	12H	7.85	8.26	8.37	8.75	9.32	17.44	17.84	17.95	18.34	18.91
12H	4H	4.89	5.44	5.37	5.92	6.39	17.33	17.88	17.82	18.37	18.84
	6H	6.60	7.05	7.12	7.57	8.06	17.32	17.78	17.84	18.29	18.78
	8H	7.58	7.99	8.10	8.48	9.05	17.37	17.77	17.88	18.27	18.84