

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: P1061526

Luminaire Tested: S125RDRP-S1270D835-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
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: S125RDRP-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

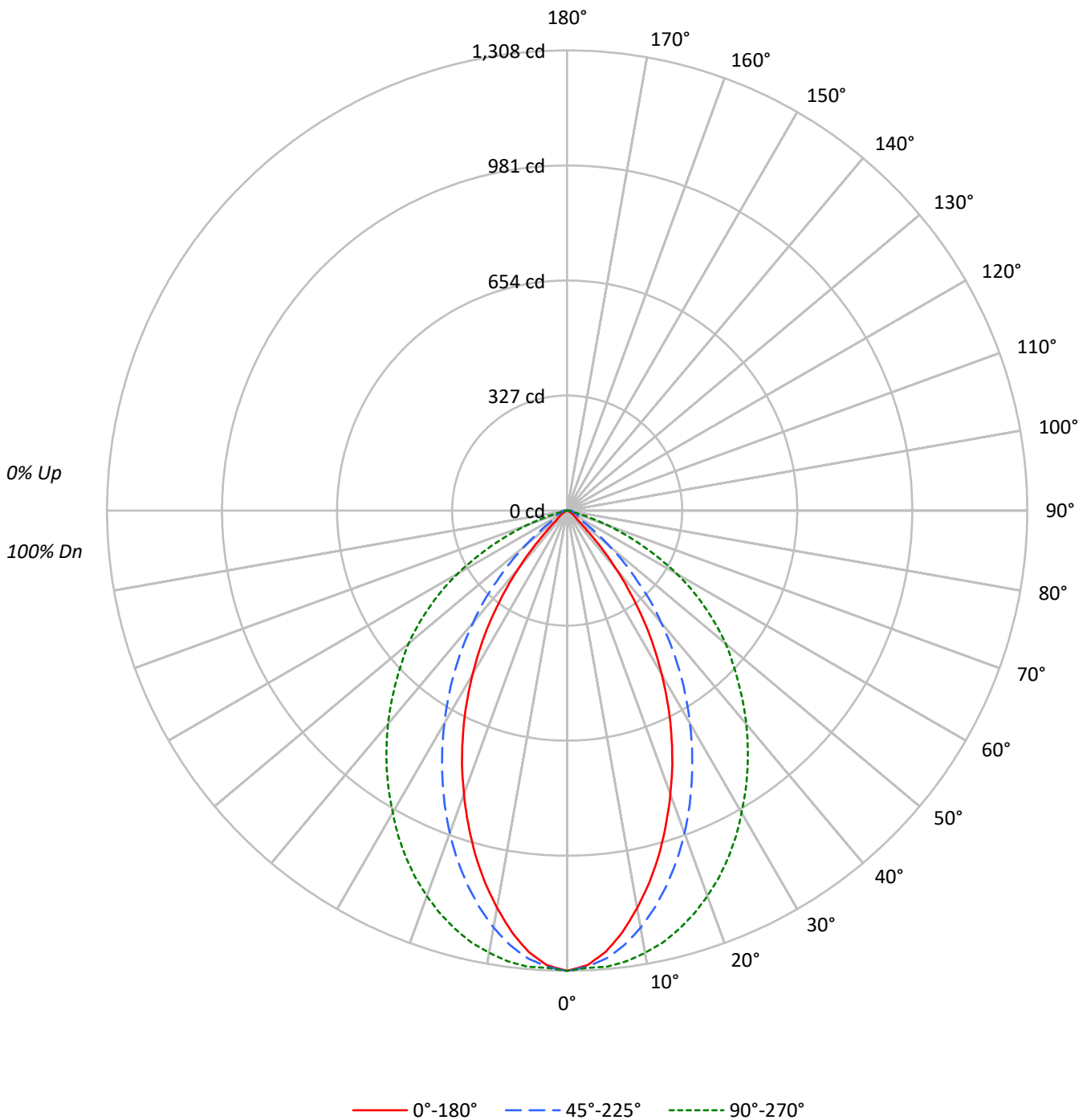
Lumens per Lamp: N/A
Luminaire Lumens: 1692.7 lumens
Efficiency: N/A
Efficacy: 40.5 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
Input Voltage (V): 120
Input Current (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	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					100			
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80					80			
3	98	89	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	65					65			
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59					59			
6	80	69	62	57	78	68	61	56	67	60	56	65	60	56	64	59	55	53					53			
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49					49			
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45					45			
9	67	55	48	44	65	55	48	44	54	48	43	53	47	43	52	47	43	41					41			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	44	40	38					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



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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	0.20	0.51	16.88	18.17	17.25	18.49	18.80
	3H	0.00	0.21	0.00	0.54	0.90	17.60	18.74	17.98	19.08	19.44
	4H	0.00	1.02	0.36	1.38	1.76	17.63	18.69	18.03	19.04	19.42
	6H	1.22	2.19	1.63	2.56	2.96	17.58	18.55	17.99	18.92	19.32
	8H	1.86	2.78	2.29	3.17	3.58	17.55	18.48	17.98	18.87	19.27
	12H	2.45	3.33	2.88	3.72	4.15	17.54	18.42	17.97	18.80	19.23
4H	2H	1.39	2.46	1.80	2.81	3.19	16.67	17.74	17.08	18.09	18.47
	3H	2.20	3.07	2.62	3.48	3.88	17.43	18.30	17.84	18.70	19.11
	4H	3.21	3.99	3.65	4.41	4.85	17.46	18.23	17.90	18.65	19.10
	6H	4.49	5.16	4.95	5.60	6.07	17.44	18.11	17.90	18.55	19.02
	8H	5.07	5.69	5.54	6.14	6.61	17.42	18.05	17.89	18.49	18.96
	12H	5.63	6.18	6.12	6.67	7.14	17.43	17.98	17.92	18.46	18.94
8H	4H	4.63	5.25	5.10	5.70	6.17	17.34	17.97	17.81	18.41	18.88
	6H	6.19	6.70	6.69	7.19	7.67	17.33	17.84	17.83	18.34	18.82
	8H	6.98	7.44	7.50	7.95	8.44	17.34	17.80	17.87	18.32	18.81
	12H	7.82	8.22	8.33	8.72	9.29	17.40	17.81	17.92	18.30	18.87
12H	4H	4.85	5.40	5.34	5.88	6.36	17.30	17.85	17.79	18.33	18.81
	6H	6.56	7.01	7.08	7.53	8.02	17.29	17.74	17.81	18.26	18.75
	8H	7.55	7.95	8.06	8.44	9.02	17.33	17.74	17.85	18.23	18.80