

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: P1217437

Luminaire Tested: S125DRP-H1005D835-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217437
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2511-596-4)
Test Lab: INNOVATION CENTER
Issue Date: 4/9/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DRP-H1005D835-X4F0-XX-UDD-G-W
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

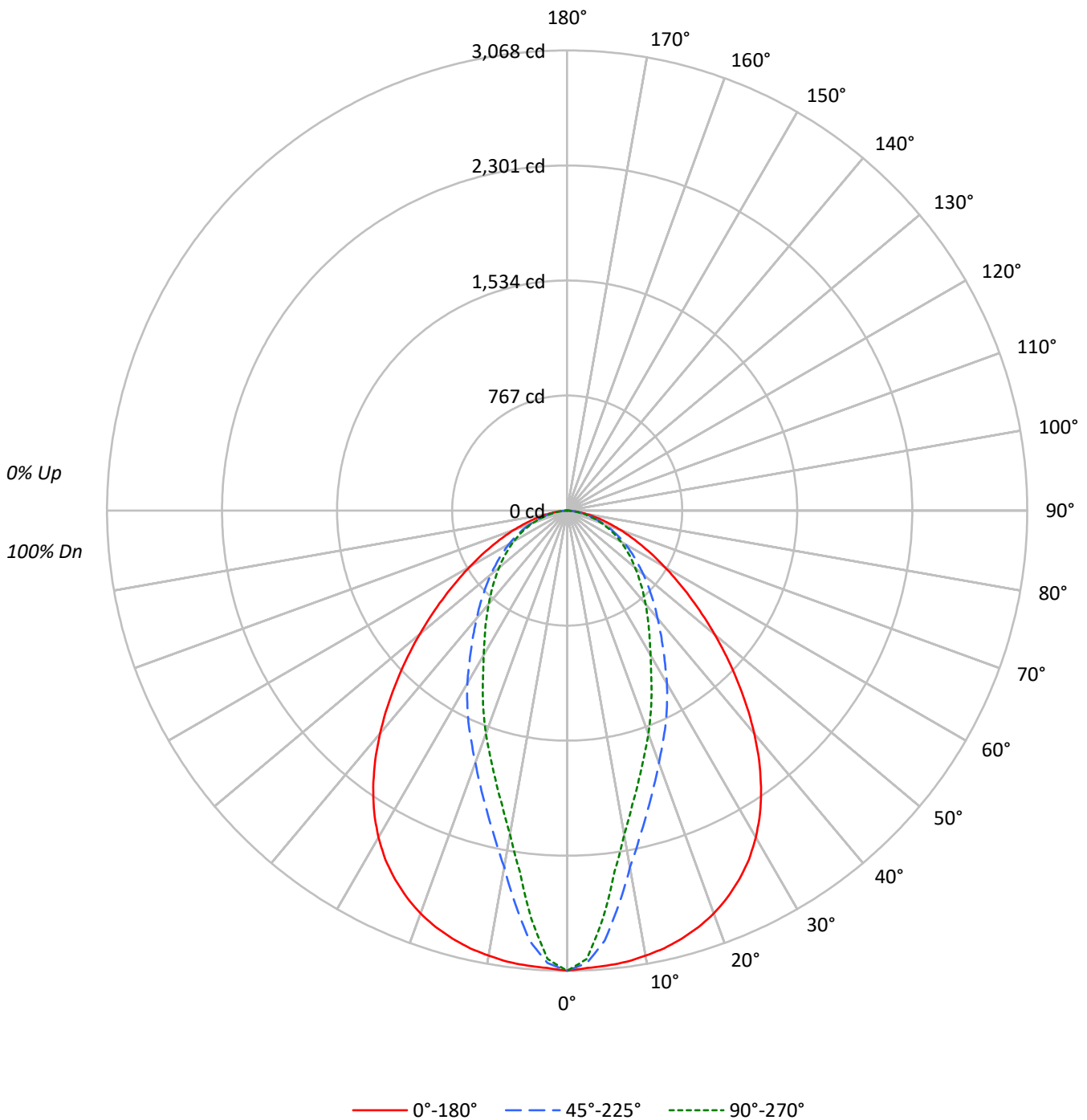
Lumens per Lamp: N/A
Luminaire Lumens: 4369.7 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 36.6
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: P1217437

CATALOG NUMBER: S125DRP-H1005D835-X4F0-XX-UDD-G-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	110	106	102	99	108	104	100	97	100	97	94	96	94	92	92	90	89	87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65
4	87	76	68	62	85	75	67	62	72	66	61	70	64	60	68	63	59	57
5	80	69	61	55	78	68	60	54	66	59	54	64	58	53	62	57	53	51
6	75	63	55	49	73	62	54	49	60	53	48	59	52	48	57	52	47	46
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43	41
8	66	53	45	40	64	52	45	40	51	44	40	50	44	39	49	43	39	37
9	62	49	42	37	60	49	41	36	48	41	36	47	40	36	46	40	36	34
10	58	46	39	34	57	45	38	34	44	38	33	44	38	33	43	37	33	32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21688	21688	21688
5°	21612	20415	19389
10°	21630	17334	15731
15°	21621	15154	13550
20°	21505	13453	11910
25°	21170	12140	10377
30°	20537	10859	9070
35°	19457	9589	8195
40°	17915	8647	7505
45°	16052	7907	6951
50°	14105	7307	6504
55°	12258	6787	6146
60°	10586	6316	5819
65°	9116	5875	5475
70°	7811	5372	5052
75°	6523	4682	4490
80°	5146	3831	3717
85°	3301	2620	2620

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16052 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.3	6.0
10°-20°	621.9	14.2
20°-30°	790.1	18.1
30°-40°	804.7	18.4
40°-50°	711.8	16.3
50°-60°	557.8	12.8
60°-70°	380.4	8.7
70°-80°	195.9	4.5
80°-90°	43.8	1.0
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°	1675.3	38.3
0°-40°	2480.0	56.8
0°-60°	3749.6	85.8
0°-90°	4369.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4369.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3068	3068	3068	3068	3068	
5°	3046	3030	2877	2764	2732	290
15°	2954	2499	2071	1887	1851	833
25°	2714	1927	1556	1371	1330	1247
35°	2255	1458	1111	971	950	1403
45°	1606	1032	791	705	695	1239
55°	995	690	551	500	499	895
65°	545	420	351	324	327	546
75°	239	201	171	160	164	257
85°	41	38	32	30	32	53
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3067.9	3067.9	3067.9	3067.9	3067.9
2.5°	3052.5	3076.4	3018.8	3003.3	2992.1
5°	3045.5	3030.0	2876.9	2764.5	2732.2
7.5°	3034.2	2948.5	2646.5	2455.5	2426.0
10°	3013.2	2820.7	2414.7	2227.9	2191.4
12.5°	2989.3	2667.6	2232.1	2042.5	2007.4
15°	2954.2	2499.0	2070.6	1886.6	1851.4
17.5°	2912.0	2338.9	1924.5	1743.3	1709.6
20°	2858.6	2192.8	1788.2	1616.9	1583.1
22.5°	2792.6	2055.1	1667.4	1491.8	1455.3
25°	2714.0	1927.3	1556.4	1371.0	1330.3
27.5°	2624.0	1805.1	1442.7	1250.2	1210.9
30°	2515.9	1685.7	1330.3	1143.5	1111.1
32.5°	2393.7	1570.5	1215.1	1050.7	1024.1
35°	2254.6	1458.1	1111.1	970.7	949.6
37.5°	2102.9	1347.1	1021.2	896.2	878.0
40°	1941.3	1239.0	937.0	827.4	813.3
42.5°	1774.2	1135.0	863.9	765.6	752.9
45°	1605.6	1032.5	790.9	705.2	695.3
47.5°	1441.3	938.4	726.2	650.4	642.0
50°	1282.5	849.9	664.4	597.0	591.4
52.5°	1133.6	767.0	604.0	547.8	545.0
55°	994.6	689.7	550.7	500.1	498.7
57.5°	866.7	616.7	497.3	453.7	453.7
60°	748.7	547.8	446.7	408.8	411.6
62.5°	643.4	481.8	398.9	366.6	369.4
65°	545.0	420.0	351.2	324.5	327.3
67.5°	456.5	361.0	304.8	282.4	285.2
70°	377.9	304.8	259.9	240.2	244.4
72.5°	304.8	252.9	214.9	199.5	203.7
75°	238.8	200.9	171.4	160.1	164.4
77.5°	179.8	153.1	132.0	122.2	126.4
80°	126.4	109.6	94.1	87.1	91.3
82.5°	78.7	70.2	61.8	56.2	59.0
85°	40.7	37.9	32.3	29.5	32.3
87.5°	14.0	14.0	12.6	11.2	12.6
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	19.57	21.05	19.93	21.37	21.68	16.95	18.44	17.32	18.75	19.07
	3H	21.15	22.49	21.53	22.81	23.18	18.60	19.93	18.97	20.26	20.62
	4H	21.69	22.94	22.09	23.28	23.66	19.17	20.42	19.57	20.77	21.15
	6H	22.02	23.18	22.44	23.54	23.94	19.54	20.70	19.96	21.07	21.46
	8H	22.10	23.20	22.53	23.59	23.99	19.64	20.74	20.07	21.13	21.53
	12H	22.13	23.18	22.57	23.57	24.00	19.69	20.74	20.12	21.12	21.55
4H	2H	19.81	21.06	20.21	21.41	21.78	17.64	18.89	18.04	19.24	19.62
	3H	21.59	22.63	22.00	23.03	23.43	19.46	20.49	19.87	20.89	21.30
	4H	22.24	23.17	22.67	23.59	24.02	20.12	21.05	20.56	21.47	21.91
	6H	22.69	23.50	23.15	23.94	24.40	20.59	21.40	21.05	21.84	22.30
	8H	22.80	23.56	23.27	24.01	24.47	20.71	21.47	21.18	21.91	22.38
	12H	22.87	23.54	23.35	24.02	24.49	20.78	21.46	21.26	21.93	22.41
8H	4H	22.34	23.10	22.81	23.55	24.01	20.42	21.18	20.88	21.62	22.09
	6H	22.87	23.50	23.37	23.99	24.47	20.97	21.59	21.47	22.08	22.56
	8H	23.03	23.59	23.55	24.10	24.59	21.14	21.70	21.65	22.21	22.70
	12H	23.14	23.63	23.65	24.13	24.69	21.25	21.74	21.76	22.24	22.80
12H	4H	22.34	23.01	22.82	23.49	23.96	20.44	21.12	20.93	21.60	22.07
	6H	22.87	23.43	23.38	23.94	24.43	21.01	21.57	21.52	22.08	22.57
	8H	23.07	23.56	23.58	24.05	24.62	21.22	21.71	21.73	22.21	22.77