

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: P1217518

Luminaire Tested: S125DRP-S865D835-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217518
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-S865D835-X4F0-XX-UDD-G-W
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC
CORE LIGHT ENGINE
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

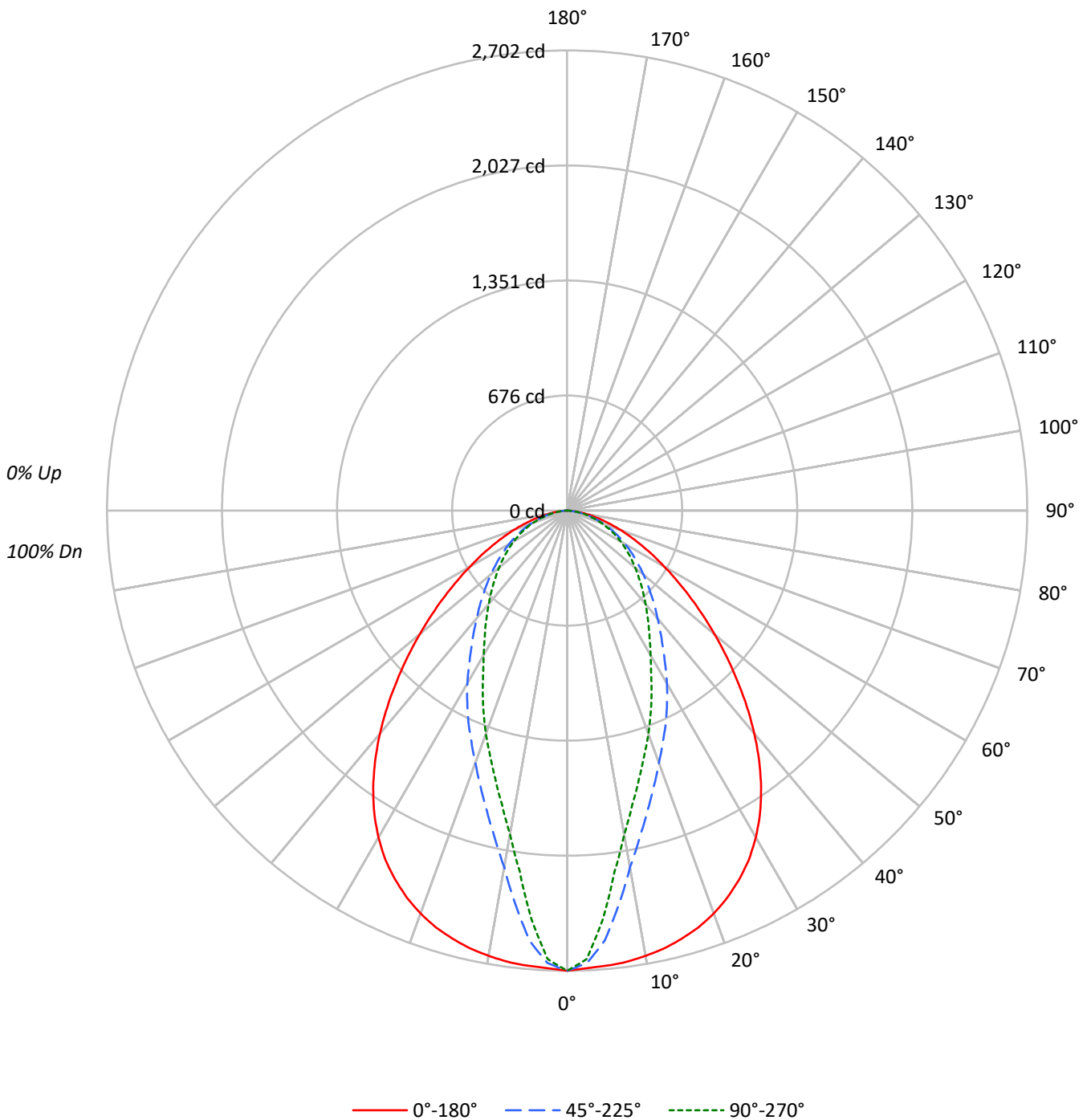
Lumens per Lamp: N/A
Luminaire Lumens: 3849.1 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 34.7
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	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°	19104	19104	19104
5°	19037	17983	17079
10°	19053	15268	13856
15°	19045	13349	11936
20°	18943	11850	10491
25°	18647	10694	9140
30°	18090	9565	7990
35°	17139	8447	7219
40°	15781	7616	6611
45°	14140	6964	6124
50°	12424	6437	5729
55°	10798	5978	5414
60°	9324	5564	5125
65°	8031	5174	4823
70°	6881	4731	4450
75°	5747	4124	3955
80°	4535	3375	3273
85°	2912	2312	2312

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14140 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.9	6.0
10°-20°	547.8	14.2
20°-30°	695.9	18.1
30°-40°	708.8	18.4
40°-50°	627.0	16.3
50°-60°	491.4	12.8
60°-70°	335.1	8.7
70°-80°	172.6	4.5
80°-90°	38.6	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°	1475.7	38.3
0°-40°	2184.5	56.8
0°-60°	3302.8	85.8
0°-90°	3849.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3849.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2702	2702	2702	2702	2702	
5°	2683	2669	2534	2435	2407	255
15°	2602	2201	1824	1662	1631	734
25°	2391	1698	1371	1208	1172	1099
35°	1986	1284	979	855	836	1236
45°	1414	910	697	621	612	1091
55°	876	608	485	440	439	788
65°	480	370	309	286	288	481
75°	210	177	151	141	145	226
85°	36	33	28	26	28	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2702.4	2702.4	2702.4	2702.4	2702.4
2.5°	2688.8	2709.8	2659.1	2645.5	2635.6
5°	2682.6	2669.0	2534.1	2435.1	2406.7
7.5°	2672.7	2597.2	2331.2	2162.9	2136.9
10°	2654.2	2484.6	2127.0	1962.5	1930.3
12.5°	2633.1	2349.8	1966.2	1799.1	1768.2
15°	2602.2	2201.3	1823.9	1661.8	1630.9
17.5°	2565.1	2060.2	1695.2	1535.6	1505.9
20°	2518.0	1931.5	1575.2	1424.2	1394.5
22.5°	2459.9	1810.3	1468.8	1314.1	1281.9
25°	2390.6	1697.7	1371.0	1207.7	1171.8
27.5°	2311.4	1590.0	1270.8	1101.3	1066.6
30°	2216.1	1484.8	1171.8	1007.2	978.8
32.5°	2108.5	1383.4	1070.3	925.6	902.0
35°	1986.0	1284.4	978.8	855.0	836.5
37.5°	1852.3	1186.6	899.6	789.4	773.4
40°	1710.0	1091.4	825.3	728.8	716.4
42.5°	1562.8	999.8	761.0	674.4	663.2
45°	1414.3	909.5	696.6	621.2	612.5
47.5°	1269.5	826.6	639.7	572.9	565.5
50°	1129.7	748.6	585.3	525.9	520.9
52.5°	998.6	675.6	532.1	482.6	480.1
55°	876.1	607.5	485.0	440.5	439.3
57.5°	763.5	543.2	438.0	399.7	399.7
60°	659.5	482.6	393.5	360.1	362.5
62.5°	566.7	424.4	351.4	323.0	325.4
65°	480.1	370.0	309.3	285.8	288.3
67.5°	402.1	318.0	268.5	248.7	251.2
70°	332.9	268.5	228.9	211.6	215.3
72.5°	268.5	222.7	189.3	175.7	179.4
75°	210.4	176.9	151.0	141.1	144.8
77.5°	158.4	134.9	116.3	107.7	111.4
80°	111.4	96.5	82.9	76.7	80.4
82.5°	69.3	61.9	54.4	49.5	52.0
85°	35.9	33.4	28.5	26.0	28.5
87.5°	12.4	12.4	11.1	9.9	11.1
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	19.13	20.61	19.49	20.92	21.24	16.51	18.00	16.88	18.31	18.63
	3H	20.71	22.04	21.09	22.37	22.73	18.15	19.49	18.53	19.82	20.18
	4H	21.25	22.50	21.65	22.84	23.22	18.73	19.98	19.13	20.33	20.71
	6H	21.58	22.74	22.00	23.10	23.50	19.10	20.26	19.52	20.62	21.02
	8H	21.66	22.76	22.09	23.15	23.55	19.20	20.30	19.63	20.69	21.09
	12H	21.69	22.74	22.12	23.13	23.56	19.25	20.30	19.68	20.68	21.11
4H	2H	19.37	20.62	19.77	20.96	21.34	17.20	18.45	17.60	18.80	19.18
	3H	21.15	22.19	21.56	22.59	22.99	19.02	20.05	19.43	20.45	20.85
	4H	21.80	22.73	22.23	23.14	23.58	19.68	20.61	20.11	21.03	21.47
	6H	22.25	23.06	22.71	23.50	23.96	20.15	20.96	20.61	21.40	21.86
	8H	22.36	23.12	22.83	23.56	24.03	20.27	21.03	20.74	21.47	21.94
	12H	22.43	23.10	22.91	23.58	24.05	20.34	21.02	20.82	21.49	21.97
8H	4H	21.90	22.66	22.37	23.10	23.57	19.98	20.74	20.44	21.18	21.65
	6H	22.43	23.06	22.93	23.55	24.03	20.53	21.15	21.03	21.64	22.12
	8H	22.59	23.15	23.11	23.66	24.15	20.70	21.26	21.21	21.77	22.26
	12H	22.70	23.19	23.21	23.68	24.25	20.81	21.30	21.32	21.80	22.36
12H	4H	21.89	22.57	22.38	23.05	23.52	20.00	20.68	20.49	21.16	21.63
	6H	22.43	22.99	22.94	23.50	23.99	20.57	21.13	21.08	21.64	22.13
	8H	22.63	23.12	23.14	23.61	24.18	20.78	21.27	21.29	21.77	22.33