

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: P1217524

Luminaire Tested: S125DRP-S865D940-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217524
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-S865D940-X4F0-XX-UDD-G-W
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC
CORE LIGHT ENGINE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

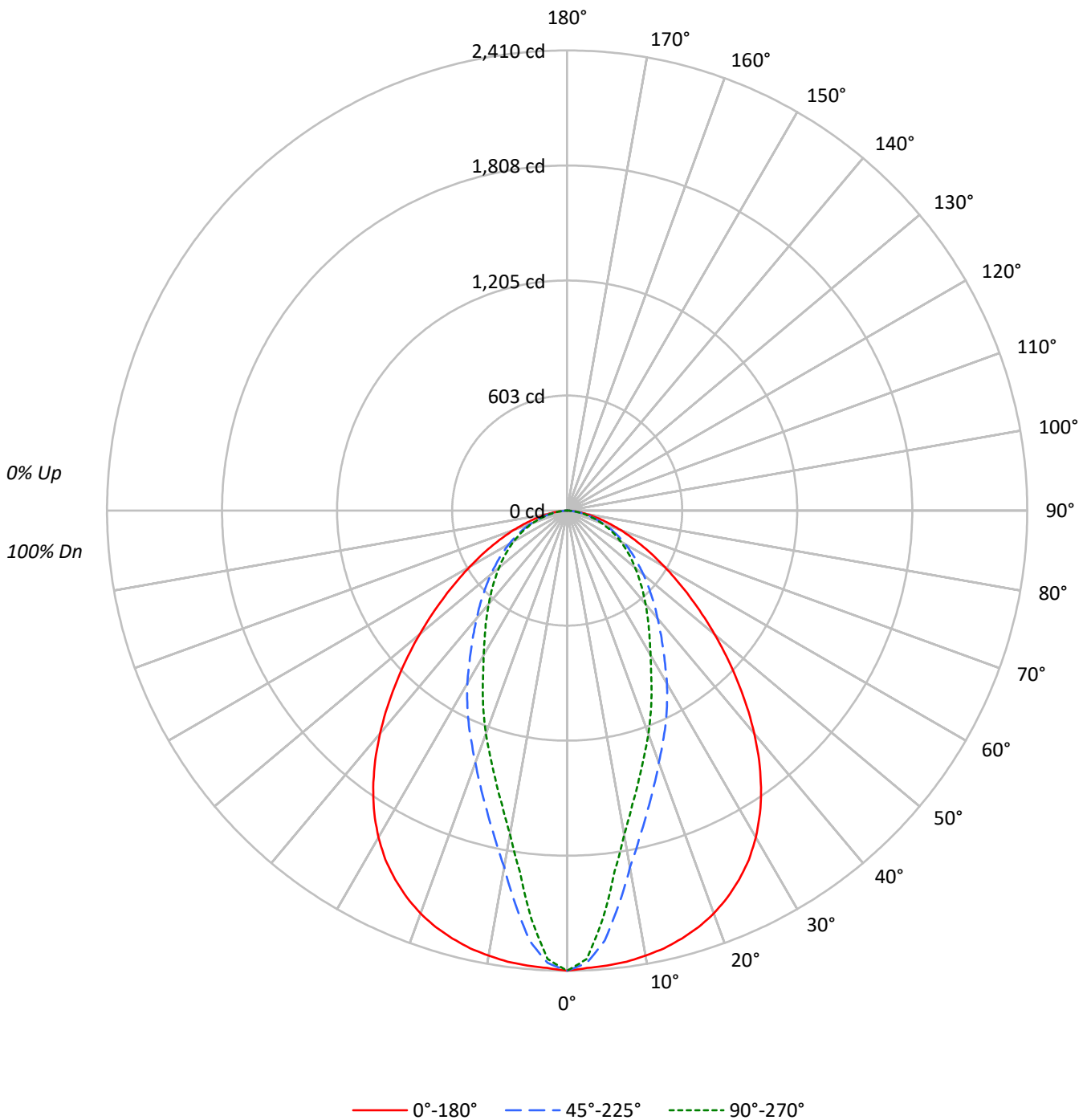
Lumens per Lamp: N/A
Luminaire Lumens: 3432.3 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 34.7
Input Voltage (V): 120
Input Current (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	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°	17036	17036	17036
5°	16975	16036	15229
10°	16989	13615	12356
15°	16982	11903	10643
20°	16892	10567	9355
25°	16628	9536	8150
30°	16131	8529	7125
35°	15283	7532	6437
40°	14072	6792	5896
45°	12609	6210	5461
50°	11079	5740	5109
55°	9628	5331	4828
60°	8315	4961	4571
65°	7161	4613	4301
70°	6135	4219	3969
75°	5124	3676	3526
80°	4043	3009	2919
85°	2596	2060	2060

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12609 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.8	6.0
10°-20°	488.5	14.2
20°-30°	620.6	18.1
30°-40°	632.1	18.4
40°-50°	559.1	16.3
50°-60°	438.2	12.8
60°-70°	298.8	8.7
70°-80°	153.9	4.5
80°-90°	34.4	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°	1315.9	38.3
0°-40°	1947.9	56.8
0°-60°	2945.2	85.8
0°-90°	3432.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3432.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2410	2410	2410	2410	2410	
5°	2392	2380	2260	2171	2146	228
15°	2320	1963	1626	1482	1454	655
25°	2132	1514	1222	1077	1045	980
35°	1771	1145	873	762	746	1102
45°	1261	811	621	554	546	973
55°	781	542	432	393	392	703
65°	428	330	276	255	257	429
75°	188	158	135	126	129	202
85°	32	30	25	23	25	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2409.8	2409.8	2409.8	2409.8	2409.8
2.5°	2397.6	2416.4	2371.2	2359.0	2350.2
5°	2392.1	2380.0	2259.7	2171.4	2146.1
7.5°	2383.3	2316.0	2078.8	1928.7	1905.5
10°	2366.7	2215.6	1896.7	1750.0	1721.3
12.5°	2348.0	2095.3	1753.3	1604.3	1576.7
15°	2320.4	1962.9	1626.4	1481.8	1454.2
17.5°	2287.3	1837.1	1511.6	1369.3	1342.8
20°	2245.4	1722.4	1404.6	1270.0	1243.5
22.5°	2193.5	1614.2	1309.7	1171.8	1143.1
25°	2131.7	1513.8	1222.5	1076.9	1044.9
27.5°	2061.1	1417.8	1133.2	982.0	951.1
30°	1976.1	1324.1	1044.9	898.1	872.8
32.5°	1880.2	1233.6	954.4	825.3	804.4
35°	1770.9	1145.3	872.8	762.4	745.9
37.5°	1651.8	1058.1	802.2	704.0	689.6
40°	1524.9	973.2	736.0	649.9	638.9
42.5°	1393.6	891.5	678.6	601.3	591.4
45°	1261.2	811.0	621.2	553.9	546.2
47.5°	1132.1	737.1	570.4	510.9	504.2
50°	1007.4	667.5	521.9	468.9	464.5
52.5°	890.4	602.4	474.5	430.3	428.1
55°	781.2	541.8	432.5	392.8	391.7
57.5°	680.8	484.4	390.6	356.4	356.4
60°	588.1	430.3	350.9	321.1	323.3
62.5°	505.3	378.5	313.4	288.0	290.2
65°	428.1	329.9	275.8	254.9	257.1
67.5°	358.6	283.6	239.4	221.8	224.0
70°	296.8	239.4	204.1	188.7	192.0
72.5°	239.4	198.6	168.8	156.7	160.0
75°	187.6	157.8	134.6	125.8	129.1
77.5°	141.2	120.3	103.7	96.0	99.3
80°	99.3	86.1	73.9	68.4	71.7
82.5°	61.8	55.2	48.5	44.1	46.3
85°	32.0	29.8	25.4	23.2	25.4
87.5°	11.0	11.0	9.9	8.8	9.9
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	18.73	20.21	19.09	20.53	20.84	16.11	17.60	16.48	17.91	18.23
	3H	20.31	21.65	20.69	21.97	22.34	17.76	19.09	18.13	19.42	19.78
	4H	20.85	22.10	21.25	22.45	22.83	18.33	19.58	18.73	19.93	20.31
	6H	21.18	22.34	21.60	22.70	23.10	18.71	19.86	19.12	20.23	20.62
	8H	21.26	22.36	21.69	22.75	23.15	18.80	19.90	19.23	20.29	20.69
	12H	21.30	22.35	21.73	22.73	23.16	18.85	19.90	19.28	20.28	20.71
4H	2H	18.97	20.22	19.37	20.57	20.95	16.80	18.05	17.20	18.40	18.78
	3H	20.75	21.79	21.16	22.19	22.59	18.62	19.65	19.03	20.06	20.46
	4H	21.40	22.33	21.83	22.75	23.19	19.28	20.22	19.72	20.63	21.07
	6H	21.85	22.66	22.31	23.10	23.56	19.75	20.56	20.21	21.00	21.46
	8H	21.97	22.72	22.43	23.17	23.63	19.87	20.63	20.34	21.07	21.54
	12H	22.03	22.70	22.51	23.18	23.65	19.94	20.62	20.43	21.10	21.57
8H	4H	21.51	22.26	21.97	22.71	23.17	19.58	20.34	20.05	20.78	21.25
	6H	22.03	22.66	22.53	23.15	23.63	20.13	20.75	20.63	21.25	21.72
	8H	22.20	22.75	22.71	23.26	23.75	20.30	20.86	20.81	21.37	21.86
	12H	22.30	22.79	22.81	23.29	23.85	20.41	20.90	20.92	21.40	21.96
12H	4H	21.50	22.17	21.98	22.65	23.12	19.61	20.28	20.09	20.76	21.23
	6H	22.03	22.59	22.54	23.10	23.59	20.17	20.73	20.68	21.24	21.73
	8H	22.23	22.72	22.74	23.21	23.78	20.38	20.87	20.89	21.37	21.93