

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: P1217508

Luminaire Tested: S125DRP-S675D830-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217508
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-S675D830-X4F0-XX-UDD-G-W
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC
CORE LIGHT ENGINE
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

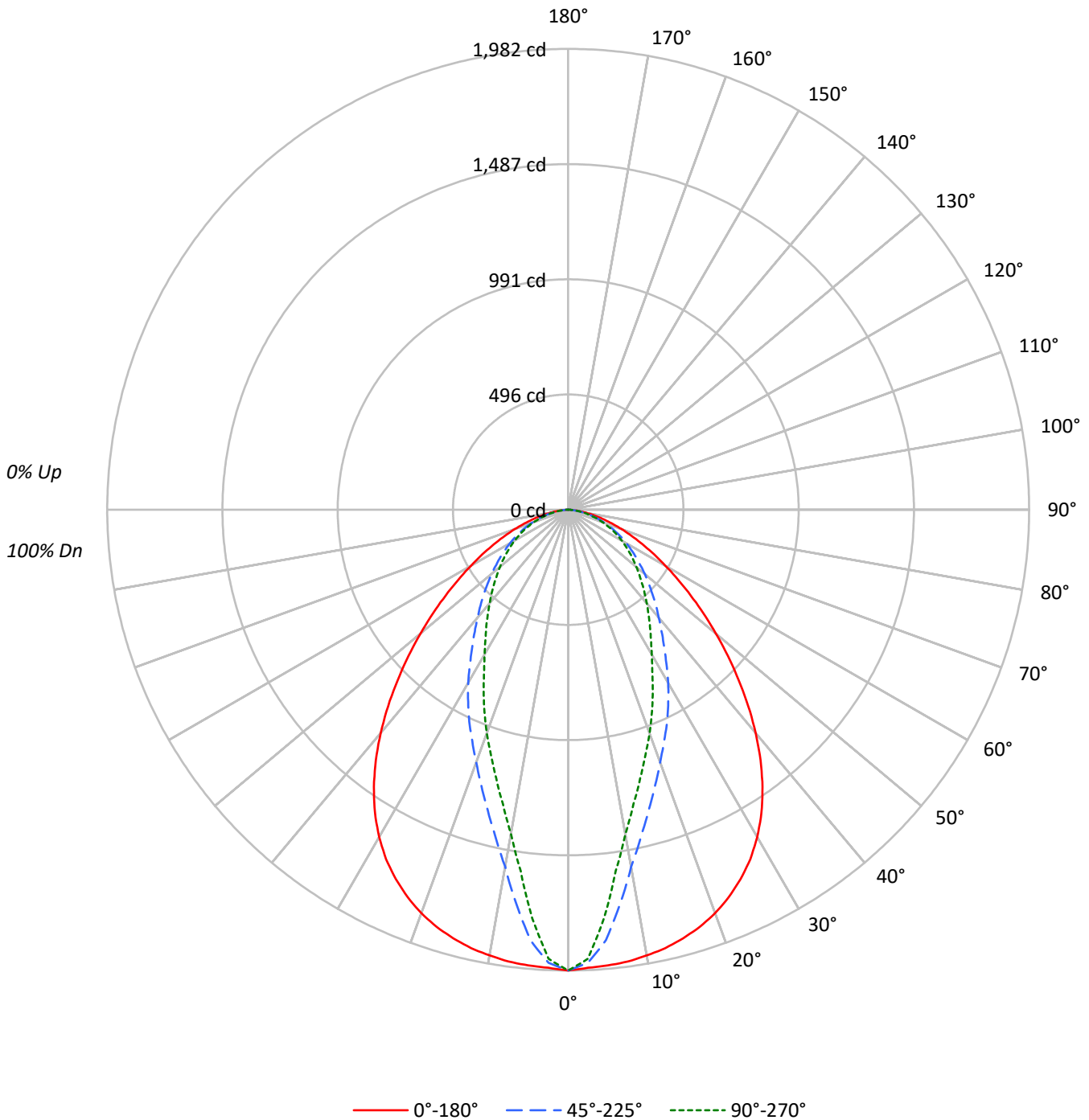
Lumens per Lamp: N/A
Luminaire Lumens: 2823.2 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 26.4
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: P1217508

CATALOG NUMBER: S125DRP-S675D830-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°	14012	14012	14012
5°	13963	13190	12526
10°	13974	11199	10163
15°	13969	9790	8755
20°	13894	8691	7695
25°	13677	7844	6704
30°	13268	7016	5860
35°	12571	6196	5295
40°	11574	5586	4850
45°	10370	5109	4491
50°	9113	4721	4202
55°	7920	4385	3971
60°	6839	4080	3759
65°	5890	3795	3538
70°	5045	3470	3264
75°	4215	3024	2901
80°	3326	2475	2402
85°	2133	1695	1695

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10370 cd/sqm

TEST NUMBER: P1217508

CATALOG NUMBER: S125DRP-S675D830-X4F0-XX-UDD-G-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.1	6.0
10°-20°	401.8	14.2
20°-30°	510.4	18.1
30°-40°	519.9	18.4
40°-50°	459.9	16.3
50°-60°	360.4	12.8
60°-70°	245.8	8.7
70°-80°	126.6	4.5
80°-90°	28.3	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°	1082.3	38.3
0°-40°	1602.2	56.8
0°-60°	2422.5	85.8
0°-90°	2823.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2823.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1982	1982	1982	1982	1982	
5°	1968	1958	1859	1786	1765	187
15°	1909	1614	1338	1219	1196	538
25°	1753	1245	1006	886	860	806
35°	1457	942	718	627	614	907
45°	1037	667	511	456	449	800
55°	643	446	356	323	322	578
65°	352	271	227	210	212	353
75°	154	130	111	104	106	166
85°	26	24	21	19	21	35
90°	0	0	0	0	0	



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CATALOG NUMBER: S125DRP-S675D830-X4F0-XX-UDD-G-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1982.1	1982.1	1982.1	1982.1	1982.1
2.5°	1972.1	1987.6	1950.3	1940.4	1933.1
5°	1967.6	1957.6	1858.7	1786.1	1765.2
7.5°	1960.3	1905.0	1709.8	1586.4	1567.4
10°	1946.7	1822.4	1560.1	1439.4	1415.8
12.5°	1931.3	1723.5	1442.1	1319.6	1296.9
15°	1908.6	1614.5	1337.7	1218.9	1196.2
17.5°	1881.4	1511.1	1243.4	1126.3	1104.5
20°	1846.9	1416.7	1155.3	1044.6	1022.8
22.5°	1804.2	1327.8	1077.3	963.8	940.2
25°	1753.4	1245.2	1005.6	885.8	859.5
27.5°	1695.3	1166.2	932.1	807.7	782.3
30°	1625.4	1089.1	859.5	738.8	717.9
32.5°	1546.5	1014.7	785.0	678.9	661.6
35°	1456.6	942.0	717.9	627.1	613.5
37.5°	1358.6	870.4	659.8	579.0	567.2
40°	1254.2	800.5	605.3	534.6	525.5
42.5°	1146.2	733.3	558.1	494.6	486.5
45°	1037.3	667.1	511.0	455.6	449.2
47.5°	931.2	606.3	469.2	420.2	414.8
50°	828.6	549.1	429.3	385.7	382.1
52.5°	732.4	495.5	390.3	353.9	352.1
55°	642.6	445.6	355.8	323.1	322.2
57.5°	560.0	398.4	321.3	293.1	293.1
60°	483.7	353.9	288.6	264.1	265.9
62.5°	415.7	311.3	257.7	236.9	238.7
65°	352.1	271.4	226.9	209.6	211.5
67.5°	295.0	233.2	196.9	182.4	184.2
70°	244.1	196.9	167.9	155.2	157.9
72.5°	196.9	163.4	138.9	128.9	131.6
75°	154.3	129.8	110.7	103.5	106.2
77.5°	116.2	98.9	85.3	79.0	81.7
80°	81.7	70.8	60.8	56.3	59.0
82.5°	50.8	45.4	39.9	36.3	38.1
85°	26.3	24.5	20.9	19.1	20.9
87.5°	9.1	9.1	8.2	7.3	8.2
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1217508

CATALOG NUMBER: S125DRP-S675D830-X4F0-XX-UDD-G-W

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	18.05	19.53	18.41	19.85	20.16	15.43	16.92	15.80	17.23	17.55
	3H	19.63	20.97	20.01	21.30	21.66	17.08	18.41	17.45	18.74	19.10
	4H	20.17	21.42	20.57	21.77	22.15	17.65	18.90	18.05	19.25	19.63
	6H	20.51	21.66	20.92	22.03	22.42	18.03	19.18	18.44	19.55	19.94
	8H	20.59	21.68	21.01	22.07	22.47	18.12	19.22	18.55	19.61	20.01
	12H	20.62	21.67	21.05	22.05	22.48	18.17	19.22	18.60	19.60	20.03
4H	2H	18.29	19.54	18.69	19.89	20.27	16.12	17.37	16.52	17.72	18.10
	3H	20.07	21.11	20.48	21.51	21.91	17.94	18.98	18.35	19.38	19.78
	4H	20.72	21.65	21.15	22.07	22.51	18.60	19.54	19.04	19.95	20.39
	6H	21.17	21.98	21.63	22.43	22.89	19.07	19.88	19.53	20.32	20.78
	8H	21.29	22.04	21.75	22.49	22.96	19.19	19.95	19.66	20.39	20.86
	12H	21.35	22.02	21.83	22.50	22.97	19.26	19.94	19.75	20.42	20.89
8H	4H	20.83	21.58	21.29	22.03	22.50	18.90	19.66	19.37	20.10	20.57
	6H	21.36	21.98	21.85	22.47	22.95	19.45	20.08	19.95	20.57	21.05
	8H	21.52	22.07	22.03	22.59	23.07	19.62	20.18	20.14	20.69	21.18
	12H	21.62	22.12	22.13	22.61	23.17	19.73	20.23	20.24	20.72	21.28
12H	4H	20.82	21.49	21.30	21.97	22.44	18.93	19.60	19.41	20.08	20.55
	6H	21.35	21.91	21.87	22.42	22.91	19.49	20.05	20.01	20.56	21.05
	8H	21.55	22.04	22.06	22.53	23.10	19.70	20.20	20.21	20.69	21.25