

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: P1217464

Luminaire Tested: S125DRP-H675D835-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217464
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-H675D835-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

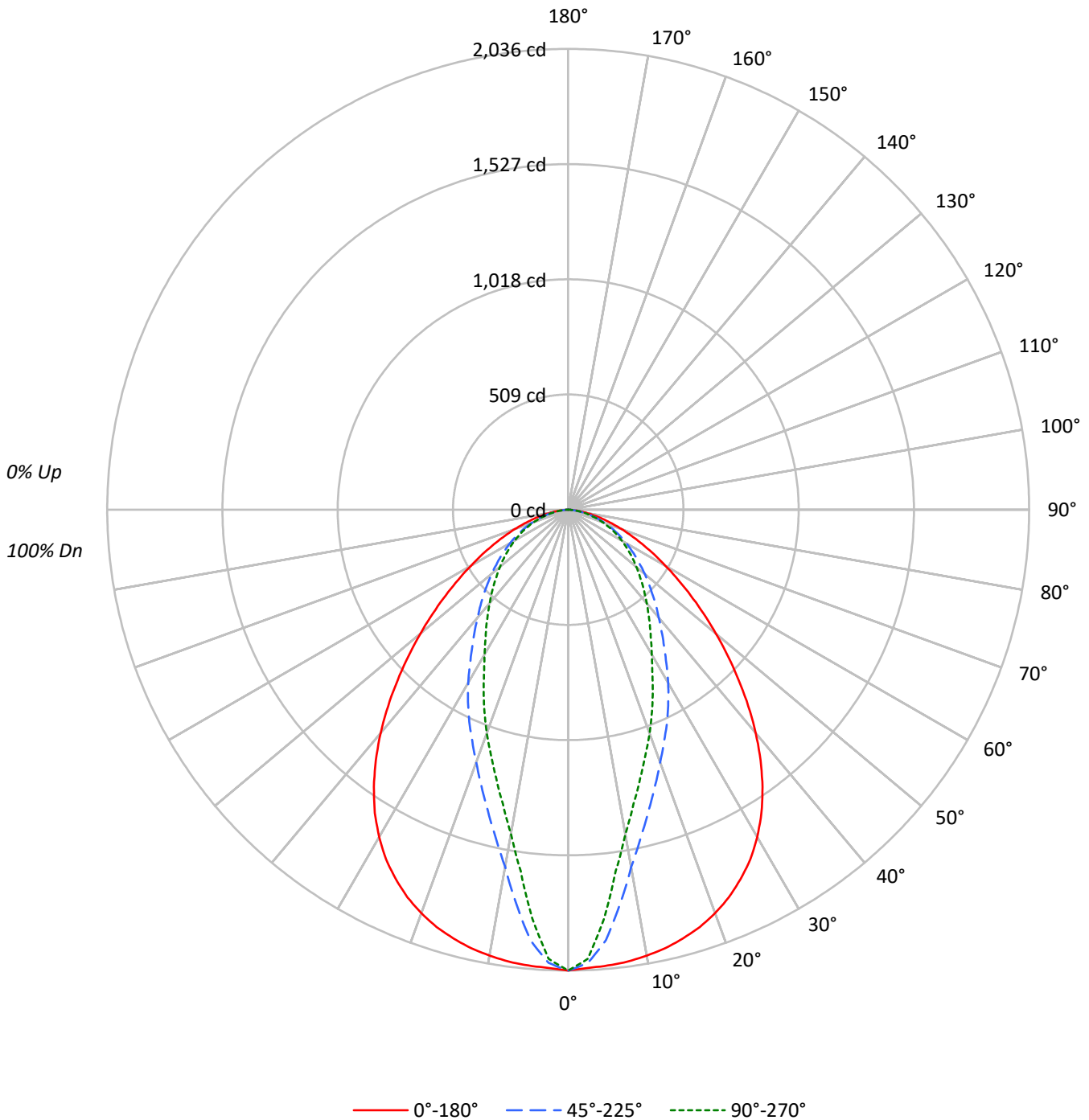
Lumens per Lamp: N/A
Luminaire Lumens: 2900.5 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 23.8
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: P1217464

CATALOG NUMBER: S125DRP-H675D835-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	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	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°	14396	14396	14396
5°	14345	13551	12870
10°	14358	11506	10442
15°	14351	10059	8994
20°	14275	8930	7905
25°	14052	8058	6888
30°	13632	7208	6021
35°	12915	6366	5440
40°	11892	5739	4982
45°	10655	5249	4615
50°	9363	4850	4318
55°	8137	4505	4080
60°	7027	4192	3863
65°	6052	3899	3635
70°	5184	3565	3353
75°	4329	3108	2980
80°	3416	2544	2467
85°	2190	1736	1736

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10655 cd/sqm

TEST NUMBER: P1217464

CATALOG NUMBER: S125DRP-H675D835-X4F0-XX-UDD-G-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.8	6.0
10°-20°	412.8	14.2
20°-30°	524.4	18.1
30°-40°	534.1	18.4
40°-50°	472.5	16.3
50°-60°	370.3	12.8
60°-70°	252.5	8.7
70°-80°	130.0	4.5
80°-90°	29.1	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°	1112.0	38.3
0°-40°	1646.1	56.8
0°-60°	2488.9	85.8
0°-90°	2900.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2900.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2036	2036	2036	2036	2036	
5°	2022	2011	1910	1835	1814	192
15°	1961	1659	1374	1252	1229	553
25°	1802	1279	1033	910	883	828
35°	1496	968	738	644	630	931
45°	1066	685	525	468	462	822
55°	660	458	366	332	331	594
65°	362	279	233	215	217	362
75°	158	133	114	106	109	171
85°	27	25	21	20	21	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2036.4	2036.4	2036.4	2036.4	2036.4
2.5°	2026.2	2042.0	2003.8	1993.5	1986.1
5°	2021.5	2011.3	1909.6	1835.0	1813.6
7.5°	2014.0	1957.2	1756.7	1629.9	1610.3
10°	2000.1	1872.3	1602.8	1478.8	1454.6
12.5°	1984.2	1770.7	1481.6	1355.8	1332.4
15°	1960.9	1658.8	1374.4	1252.3	1228.9
17.5°	1932.9	1552.5	1277.4	1157.1	1134.8
20°	1897.5	1455.5	1187.0	1073.2	1050.8
22.5°	1853.7	1364.1	1106.8	990.2	966.0
25°	1801.5	1279.3	1033.1	910.1	883.0
27.5°	1741.8	1198.2	957.6	829.9	803.8
30°	1670.0	1118.9	883.0	759.0	737.6
32.5°	1588.9	1042.5	806.6	697.5	679.7
35°	1496.5	967.9	737.6	644.3	630.3
37.5°	1395.8	894.2	677.9	594.9	582.8
40°	1288.6	822.4	621.9	549.2	539.9
42.5°	1177.7	753.4	573.4	508.2	499.8
45°	1065.8	685.3	525.0	468.1	461.6
47.5°	956.7	622.9	482.1	431.7	426.1
50°	851.3	564.1	441.0	396.3	392.6
52.5°	752.5	509.1	400.9	363.6	361.8
55°	660.2	457.8	365.5	331.9	331.0
57.5°	575.3	409.3	330.1	301.2	301.2
60°	497.0	363.6	296.5	271.3	273.2
62.5°	427.1	319.8	264.8	243.4	245.2
65°	361.8	278.8	233.1	215.4	217.3
67.5°	303.0	239.6	202.3	187.4	189.3
70°	250.8	202.3	172.5	159.4	162.2
72.5°	202.3	167.8	142.7	132.4	135.2
75°	158.5	133.3	113.8	106.3	109.1
77.5°	119.4	101.6	87.6	81.1	83.9
80°	83.9	72.7	62.5	57.8	60.6
82.5°	52.2	46.6	41.0	37.3	39.2
85°	27.0	25.2	21.4	19.6	21.4
87.5°	9.3	9.3	8.4	7.5	8.4
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	18.14	19.63	18.51	19.94	20.26	15.53	17.02	15.89	17.33	17.64
	3H	19.73	21.06	20.11	21.39	21.75	17.17	18.50	17.55	18.83	19.19
	4H	20.26	21.51	20.66	21.86	22.24	17.75	19.00	18.15	19.34	19.72
	6H	20.60	21.75	21.01	22.12	22.51	18.12	19.27	18.53	19.64	20.03
	8H	20.68	21.78	21.11	22.17	22.57	18.22	19.31	18.64	19.70	20.11
	12H	20.71	21.76	21.14	22.14	22.57	18.26	19.31	18.69	19.69	20.12
4H	2H	18.38	19.63	18.78	19.98	20.36	16.22	17.46	16.62	17.81	18.19
	3H	20.17	21.20	20.58	21.60	22.00	18.03	19.07	18.44	19.47	19.87
	4H	20.81	21.74	21.25	22.16	22.60	18.70	19.63	19.13	20.05	20.49
	6H	21.27	22.08	21.72	22.52	22.98	19.16	19.97	19.62	20.42	20.88
	8H	21.38	22.14	21.84	22.58	23.05	19.29	20.04	19.75	20.49	20.96
	12H	21.44	22.12	21.92	22.59	23.07	19.36	20.03	19.84	20.51	20.98
8H	4H	20.92	21.68	21.38	22.12	22.59	19.00	19.75	19.46	20.20	20.66
	6H	21.45	22.07	21.95	22.56	23.04	19.55	20.17	20.04	20.66	21.14
	8H	21.61	22.17	22.13	22.68	23.17	19.71	20.27	20.23	20.78	21.27
	12H	21.72	22.21	22.23	22.70	23.27	19.83	20.32	20.34	20.81	21.38
12H	4H	20.91	21.59	21.39	22.06	22.54	19.02	19.69	19.50	20.17	20.64
	6H	21.44	22.00	21.96	22.51	23.00	19.58	20.14	20.10	20.65	21.14
	8H	21.64	22.14	22.15	22.63	23.19	19.80	20.29	20.31	20.78	21.35