

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: P1217465

Luminaire Tested: S125DRP-H675D840-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217465
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-H675D840-X4F0-XX-UDD-G-W
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

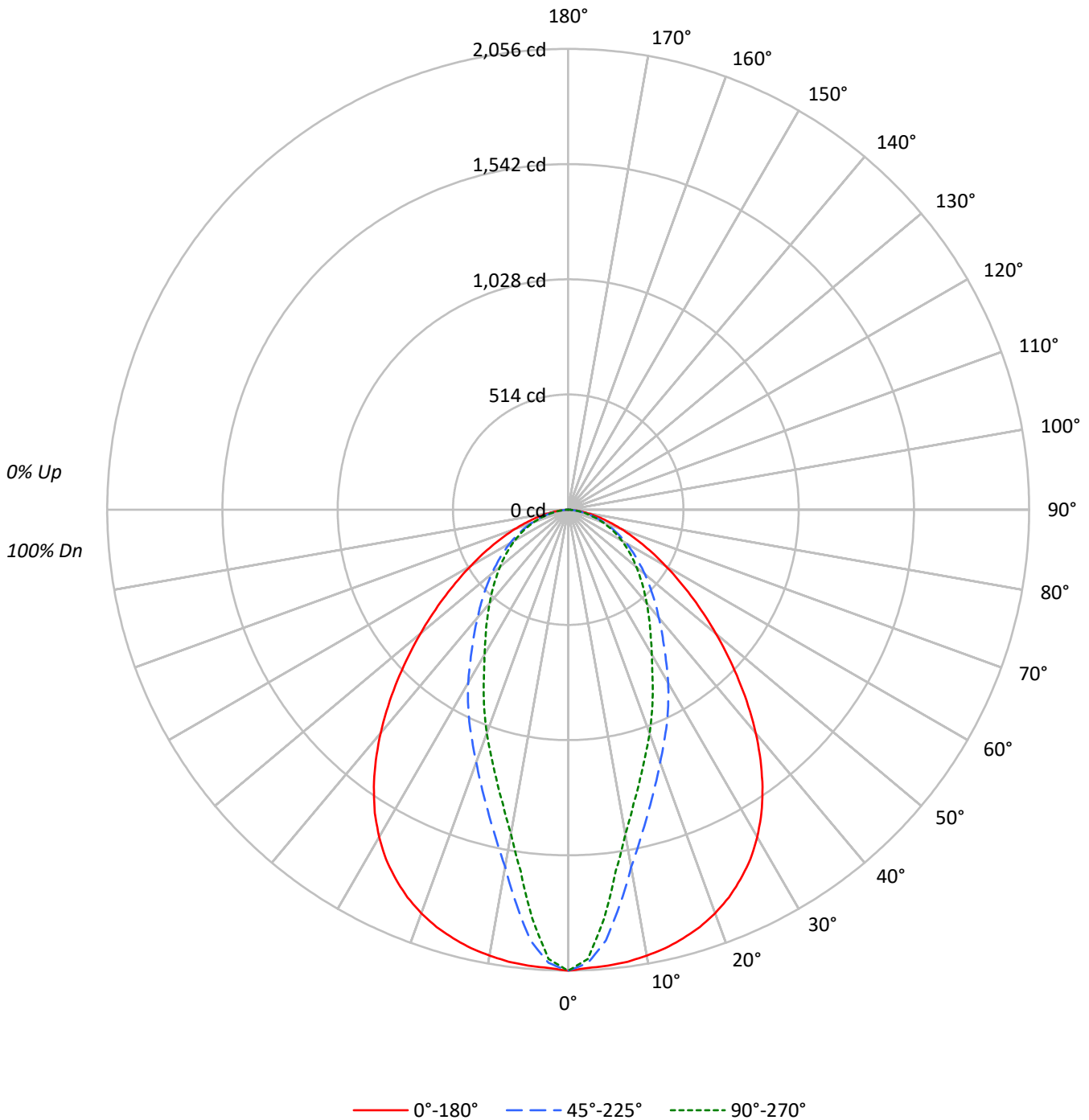
Lumens per Lamp: N/A
Luminaire Lumens: 2929.1 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

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: P1217465

CATALOG NUMBER: S125DRP-H675D840-X4F0-XX-UDD-G-W

Luminous Intensity Polar Plot





TEST NUMBER: P1217465

CATALOG NUMBER: S125DRP-H675D840-X4F0-XX-UDD-G-W

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°	14538	14538	14538
5°	14487	13685	12997
10°	14499	11620	10544
15°	14493	10158	9083
20°	14416	9018	7983
25°	14190	8138	6955
30°	13767	7279	6080
35°	13043	6428	5493
40°	12009	5796	5031
45°	10760	5300	4660
50°	9455	4898	4360
55°	8217	4549	4120
60°	7096	4233	3901
65°	6112	3938	3670
70°	5236	3601	3386
75°	4373	3138	3010
80°	3448	2569	2491
85°	2214	1760	1760

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10760 cd/sqm



TEST NUMBER: P1217465

CATALOG NUMBER: S125DRP-H675D840-X4F0-XX-UDD-G-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.5	6.0
10°-20°	416.9	14.2
20°-30°	529.6	18.1
30°-40°	539.4	18.4
40°-50°	477.1	16.3
50°-60°	373.9	12.8
60°-70°	255.0	8.7
70°-80°	131.3	4.5
80°-90°	29.4	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°	1123.0	38.3
0°-40°	1662.4	56.8
0°-60°	2513.4	85.8
0°-90°	2929.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2929.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2056	2056	2056	2056	2056	
5°	2042	2031	1928	1853	1832	194
15°	1980	1675	1388	1265	1241	559
25°	1819	1292	1043	919	892	836
35°	1511	977	745	651	636	941
45°	1076	692	530	473	466	830
55°	667	462	369	335	334	600
65°	365	282	235	218	219	366
75°	160	135	115	107	110	172
85°	27	25	22	20	22	36
90°	0	0	0	0	0	



TEST NUMBER: P1217465

CATALOG NUMBER: S125DRP-H675D840-X4F0-XX-UDD-G-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2056.5	2056.5	2056.5	2056.5	2056.5
2.5°	2046.2	2062.2	2023.6	2013.2	2005.7
5°	2041.5	2031.1	1928.5	1853.1	1831.5
7.5°	2033.9	1976.5	1774.0	1646.0	1626.2
10°	2019.8	1890.8	1618.7	1493.4	1468.9
12.5°	2003.8	1788.2	1496.2	1369.1	1345.6
15°	1980.2	1675.2	1388.0	1264.6	1241.1
17.5°	1952.0	1567.8	1290.0	1168.6	1146.0
20°	1916.2	1469.9	1198.7	1083.8	1061.2
22.5°	1872.0	1377.6	1117.7	1000.0	975.5
25°	1819.2	1291.9	1043.3	919.0	891.7
27.5°	1759.0	1210.0	967.1	838.0	811.7
30°	1686.5	1130.0	891.7	766.5	744.8
32.5°	1604.5	1052.7	814.5	704.3	686.4
35°	1511.3	977.4	744.8	650.7	636.5
37.5°	1409.6	903.0	684.6	600.8	588.5
40°	1301.3	830.5	628.1	554.6	545.2
42.5°	1189.3	760.8	579.1	513.2	504.7
45°	1076.3	692.1	530.1	472.7	466.1
47.5°	966.1	629.0	486.8	436.0	430.3
50°	859.7	569.7	445.4	400.2	396.4
52.5°	759.9	514.1	404.9	367.2	365.4
55°	666.7	462.3	369.1	335.2	334.3
57.5°	581.0	413.4	333.3	304.1	304.1
60°	501.9	367.2	299.4	274.0	275.9
62.5°	431.3	323.0	267.4	245.8	247.6
65°	365.4	281.5	235.4	217.5	219.4
67.5°	306.0	242.0	204.3	189.3	191.2
70°	253.3	204.3	174.2	161.0	163.8
72.5°	204.3	169.5	144.1	133.7	136.5
75°	160.1	134.7	114.9	107.3	110.2
77.5°	120.5	102.6	88.5	81.9	84.7
80°	84.7	73.4	63.1	58.4	61.2
82.5°	52.7	47.1	41.4	37.7	39.5
85°	27.3	25.4	21.7	19.8	21.7
87.5°	9.4	9.4	8.5	7.5	8.5
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1217465
 CATALOG NUMBER: S125DRP-H675D840-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	18.18	19.66	18.54	19.98	20.29	15.56	17.05	15.93	17.36	17.68
	3H	19.76	21.10	20.14	21.42	21.79	17.21	18.54	17.58	18.87	19.23
	4H	20.30	21.55	20.70	21.90	22.27	17.78	19.03	18.18	19.38	19.76
	6H	20.63	21.79	21.05	22.15	22.55	18.15	19.31	18.57	19.67	20.07
	8H	20.71	21.81	21.14	22.20	22.60	18.25	19.35	18.68	19.74	20.14
	12H	20.74	21.79	21.18	22.18	22.61	18.30	19.35	18.73	19.73	20.16
4H	2H	18.42	19.67	18.82	20.02	20.40	16.25	17.50	16.65	17.85	18.23
	3H	20.20	21.24	20.61	21.64	22.04	18.07	19.10	18.48	19.50	19.91
	4H	20.85	21.78	21.28	22.20	22.64	18.73	19.66	19.16	20.08	20.52
	6H	21.30	22.11	21.76	22.55	23.01	19.20	20.01	19.66	20.45	20.91
	8H	21.41	22.17	21.88	22.62	23.08	19.32	20.08	19.79	20.52	20.99
	12H	21.48	22.15	21.96	22.63	23.10	19.39	20.07	19.87	20.54	21.02
8H	4H	20.96	21.71	21.42	22.16	22.62	19.03	19.79	19.49	20.23	20.70
	6H	21.48	22.11	21.98	22.60	23.08	19.58	20.20	20.08	20.69	21.17
	8H	21.64	22.20	22.16	22.71	23.20	19.75	20.31	20.26	20.82	21.31
	12H	21.75	22.24	22.26	22.74	23.30	19.86	20.35	20.37	20.85	21.41
12H	4H	20.95	21.62	21.43	22.10	22.57	19.05	19.73	19.54	20.21	20.68
	6H	21.48	22.04	21.99	22.55	23.04	19.62	20.18	20.13	20.69	21.18
	8H	21.68	22.17	22.19	22.66	23.23	19.83	20.32	20.34	20.82	21.38