

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: P1217513

Luminaire Tested: S125DRP-S675D930-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217513
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-S675D930-X4F0-XX-UDD-G-W
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

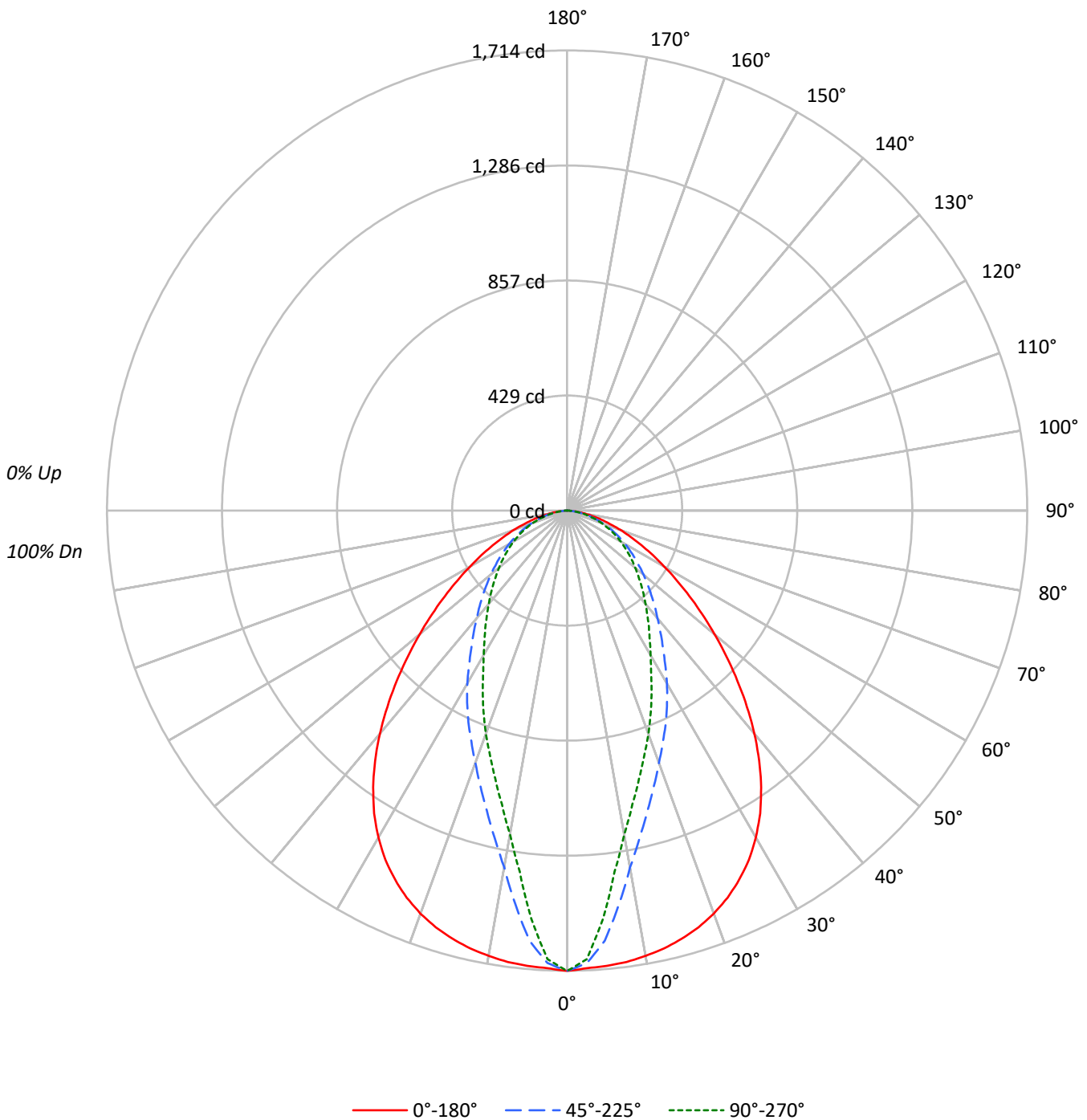
Lumens per Lamp: N/A
Luminaire Lumens: 2442.1 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 26.4
Input Voltage (V): 120
Input Current (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	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°	12120	12120	12120
5°	12078	11409	10835
10°	12088	9687	8791
15°	12082	8468	7573
20°	12019	7519	6656
25°	11830	6785	5799
30°	11477	6068	5069
35°	10874	5359	4580
40°	10012	4832	4194
45°	8971	4419	3885
50°	7882	4084	3635
55°	6850	3792	3435
60°	5916	3529	3252
65°	5095	3284	3059
70°	4365	3001	2823
75°	3646	2617	2507
80°	2878	2141	2076
85°	1849	1468	1468

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8971 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.2	6.0
10°-20°	347.5	14.2
20°-30°	441.5	18.1
30°-40°	449.7	18.4
40°-50°	397.8	16.3
50°-60°	311.7	12.8
60°-70°	212.6	8.7
70°-80°	109.5	4.5
80°-90°	24.5	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°	936.2	38.3
0°-40°	1385.9	56.8
0°-60°	2095.5	85.8
0°-90°	2442.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2442.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1714	1714	1714	1714	1714	
5°	1702	1693	1608	1545	1527	162
15°	1651	1397	1157	1054	1035	466
25°	1517	1077	870	766	743	697
35°	1260	815	621	542	531	784
45°	897	577	442	394	389	692
55°	556	386	308	280	279	500
65°	305	235	196	181	183	305
75°	134	112	96	90	92	144
85°	23	21	18	16	18	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1714.5	1714.5	1714.5	1714.5	1714.5
2.5°	1705.9	1719.2	1687.0	1678.4	1672.1
5°	1702.0	1693.3	1607.8	1545.0	1526.9
7.5°	1695.7	1647.8	1479.0	1372.2	1355.8
10°	1683.9	1576.4	1349.5	1245.1	1224.7
12.5°	1670.6	1490.8	1247.4	1141.4	1121.8
15°	1650.9	1396.6	1157.1	1054.3	1034.7
17.5°	1627.4	1307.1	1075.5	974.2	955.4
20°	1597.6	1225.4	999.4	903.6	884.7
22.5°	1560.7	1148.5	931.8	833.7	813.3
25°	1516.7	1077.1	869.8	766.2	743.4
27.5°	1466.5	1008.8	806.2	698.7	676.7
30°	1406.0	942.0	743.4	639.0	621.0
32.5°	1337.7	877.7	679.1	587.2	572.3
35°	1260.0	814.9	621.0	542.5	530.7
37.5°	1175.2	752.9	570.7	500.9	490.6
40°	1084.9	692.4	523.6	462.4	454.5
42.5°	991.5	634.3	482.8	427.8	420.8
45°	897.3	577.0	442.0	394.1	388.6
47.5°	805.4	524.4	405.9	363.5	358.8
50°	716.7	474.9	371.3	333.6	330.5
52.5°	633.5	428.6	337.6	306.2	304.6
55°	555.8	385.5	307.7	279.5	278.7
57.5°	484.4	344.6	277.9	253.6	253.6
60°	418.4	306.2	249.6	228.4	230.0
62.5°	359.5	269.3	223.0	204.9	206.5
65°	304.6	234.7	196.3	181.3	182.9
67.5°	255.1	201.8	170.4	157.8	159.4
70°	211.2	170.4	145.2	134.2	136.6
72.5°	170.4	141.3	120.1	111.5	113.8
75°	133.5	112.3	95.8	89.5	91.8
77.5°	100.5	85.6	73.8	68.3	70.7
80°	70.7	61.2	52.6	48.7	51.0
82.5°	44.0	39.3	34.5	31.4	33.0
85°	22.8	21.2	18.1	16.5	18.1
87.5°	7.9	7.9	7.1	6.3	7.1
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	17.54	19.03	17.91	19.34	19.66	14.93	16.42	15.30	16.73	17.05
	3H	19.13	20.46	19.51	20.79	21.15	16.57	17.91	16.95	18.23	18.60
	4H	19.67	20.91	20.07	21.26	21.64	17.15	18.40	17.55	18.75	19.13
	6H	20.00	21.16	20.41	21.52	21.91	17.52	18.68	17.94	19.04	19.44
	8H	20.08	21.18	20.51	21.57	21.97	17.62	18.72	18.05	19.11	19.51
	12H	20.11	21.16	20.54	21.55	21.98	17.67	18.72	18.10	19.10	19.53
4H	2H	17.79	19.03	18.19	19.38	19.76	15.62	16.87	16.02	17.22	17.60
	3H	19.57	20.61	19.98	21.01	21.41	17.44	18.47	17.85	18.87	19.27
	4H	20.22	21.15	20.65	21.56	22.00	18.10	19.03	18.53	19.45	19.89
	6H	20.67	21.48	21.13	21.92	22.38	18.57	19.38	19.02	19.82	20.28
	8H	20.78	21.54	21.25	21.98	22.45	18.69	19.45	19.15	19.89	20.36
	12H	20.85	21.52	21.33	22.00	22.47	18.76	19.43	19.24	19.91	20.39
8H	4H	20.32	21.08	20.79	21.52	21.99	18.40	19.15	18.86	19.60	20.07
	6H	20.85	21.48	21.35	21.97	22.45	18.95	19.57	19.45	20.06	20.54
	8H	21.01	21.57	21.53	22.08	22.57	19.12	19.68	19.63	20.19	20.67
	12H	21.12	21.61	21.63	22.10	22.67	19.23	19.72	19.74	20.21	20.78
12H	4H	20.31	20.99	20.80	21.47	21.94	18.42	19.10	18.91	19.58	20.05
	6H	20.85	21.41	21.36	21.92	22.40	18.99	19.55	19.50	20.06	20.55
	8H	21.05	21.54	21.56	22.03	22.60	19.20	19.69	19.71	20.19	20.75