

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: P1217454

Luminaire Tested: S125DRP-H485D830-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217454
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-H485D830-X4F0-XX-UDD-G-W
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

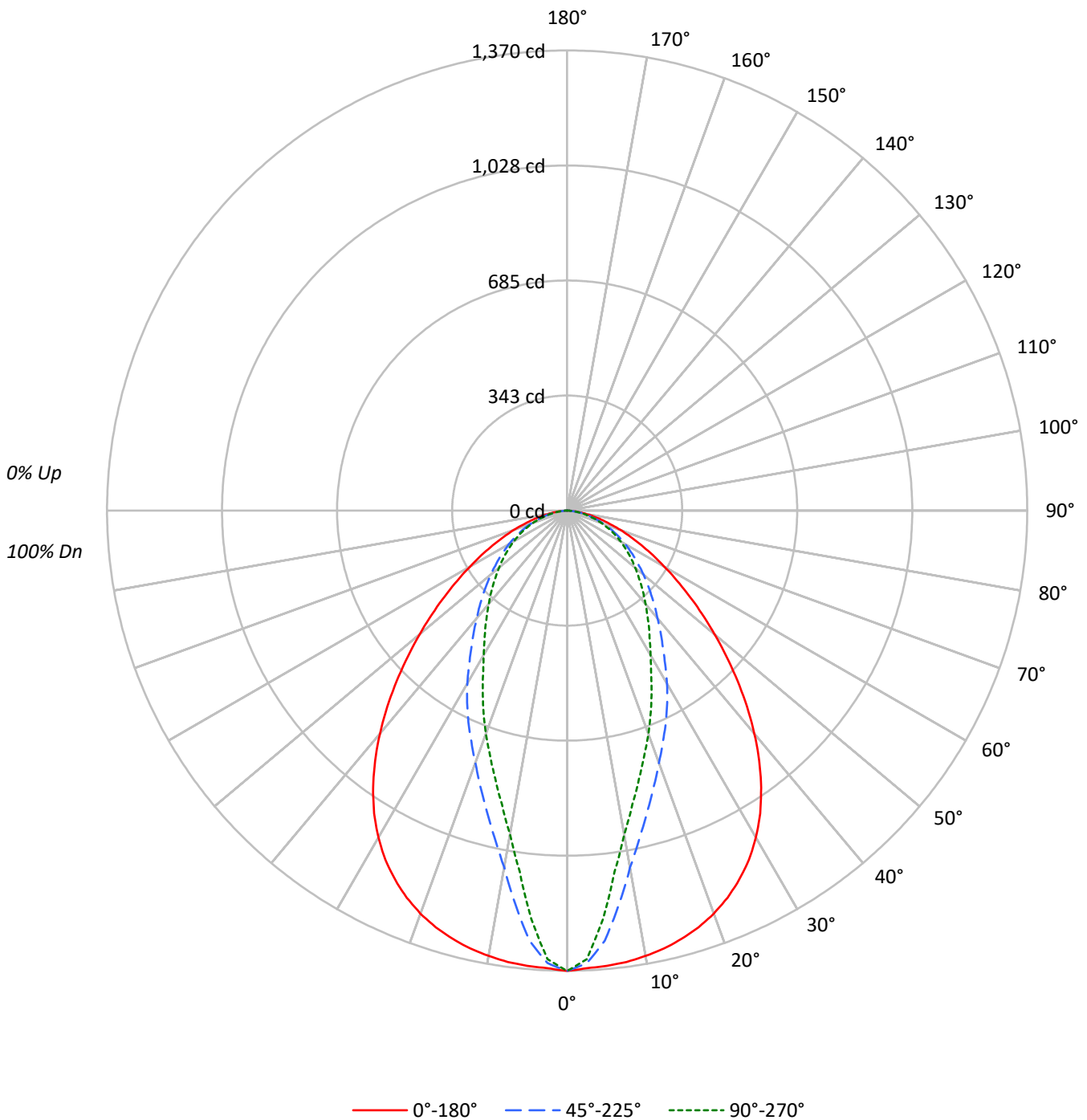
Lumens per Lamp: N/A
Luminaire Lumens: 1952.1 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 17.3
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°	9689	9689	9689
5°	9655	9120	8662
10°	9663	7743	7028
15°	9659	6770	6053
20°	9607	6009	5320
25°	9457	5423	4636
30°	9174	4851	4052
35°	8692	4284	3661
40°	8004	3863	3353
45°	7171	3532	3105
50°	6301	3264	2906
55°	5476	3032	2746
60°	4729	2822	2600
65°	4073	2625	2446
70°	3489	2400	2257
75°	2914	2092	2005
80°	2300	1710	1661
85°	1476	1168	1168

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7171 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.6	6.0
10°-20°	277.8	14.2
20°-30°	352.9	18.1
30°-40°	359.5	18.4
40°-50°	318.0	16.3
50°-60°	249.2	12.8
60°-70°	170.0	8.7
70°-80°	87.5	4.5
80°-90°	19.6	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°	748.4	38.3
0°-40°	1107.9	56.8
0°-60°	1675.0	85.8
0°-90°	1952.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1952.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1370	1370	1370	1370	1370	
5°	1360	1354	1285	1235	1221	129
15°	1320	1116	925	843	827	372
25°	1212	861	695	612	594	557
35°	1007	651	496	434	424	627
45°	717	461	353	315	311	553
55°	444	308	246	223	223	400
65°	244	188	157	145	146	244
75°	107	90	77	72	73	115
85°	18	17	14	13	14	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1370.5	1370.5	1370.5	1370.5	1370.5
2.5°	1363.6	1374.3	1348.6	1341.7	1336.6
5°	1360.5	1353.6	1285.2	1235.0	1220.6
7.5°	1355.5	1317.2	1182.3	1096.9	1083.7
10°	1346.1	1260.1	1078.7	995.3	979.0
12.5°	1335.4	1191.7	997.2	912.4	896.7
15°	1319.7	1116.4	925.0	842.8	827.1
17.5°	1300.9	1044.8	859.7	778.8	763.7
20°	1277.0	979.6	798.8	722.3	707.2
22.5°	1247.5	918.1	744.9	666.4	650.1
25°	1212.4	861.0	695.3	612.5	594.3
27.5°	1172.2	806.4	644.5	558.5	540.9
30°	1123.9	753.0	594.3	510.8	496.4
32.5°	1069.3	701.6	542.8	469.4	457.5
35°	1007.2	651.4	496.4	433.6	424.2
37.5°	939.4	601.8	456.2	400.4	392.2
40°	867.3	553.5	418.6	369.6	363.3
42.5°	792.6	507.0	385.9	342.0	336.4
45°	717.3	461.2	353.3	315.0	310.6
47.5°	643.8	419.2	324.4	290.5	286.8
50°	572.9	379.7	296.8	266.7	264.2
52.5°	506.4	342.6	269.8	244.7	243.5
55°	444.3	308.1	246.0	223.4	222.8
57.5°	387.2	275.5	222.1	202.7	202.7
60°	334.5	244.7	199.6	182.6	183.9
62.5°	287.4	215.2	178.2	163.8	165.0
65°	243.5	187.6	156.9	145.0	146.2
67.5°	203.9	161.3	136.2	126.1	127.4
70°	168.8	136.2	116.1	107.3	109.2
72.5°	136.2	113.0	96.0	89.1	91.0
75°	106.7	89.7	76.6	71.5	73.4
77.5°	80.3	68.4	59.0	54.6	56.5
80°	56.5	48.9	42.0	38.9	40.8
82.5°	35.1	31.4	27.6	25.1	26.4
85°	18.2	16.9	14.4	13.2	14.4
87.5°	6.3	6.3	5.6	5.0	5.6
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	16.77	18.25	17.13	18.57	18.88	14.15	15.64	14.52	15.95	16.27
	3H	18.35	19.69	18.73	20.01	20.38	15.80	17.13	16.17	17.46	17.82
	4H	18.89	20.14	19.29	20.49	20.86	16.37	17.62	16.77	17.97	18.35
	6H	19.22	20.38	19.64	20.74	21.14	16.75	17.90	17.16	18.27	18.66
	8H	19.30	20.40	19.73	20.79	21.19	16.84	17.94	17.27	18.33	18.73
	12H	19.33	20.38	19.77	20.77	21.20	16.89	17.94	17.32	18.32	18.75
4H	2H	17.01	18.26	17.41	18.61	18.99	14.84	16.09	15.24	16.44	16.82
	3H	18.79	19.83	19.20	20.23	20.63	16.66	17.69	17.07	18.09	18.50
	4H	19.44	20.37	19.87	20.79	21.23	17.32	18.25	17.75	18.67	19.11
	6H	19.89	20.70	20.35	21.14	21.60	17.79	18.60	18.25	19.04	19.50
	8H	20.01	20.76	20.47	21.21	21.67	17.91	18.67	18.38	19.11	19.58
	12H	20.07	20.74	20.55	21.22	21.69	17.98	18.66	18.46	19.13	19.61
8H	4H	19.55	20.30	20.01	20.75	21.21	17.62	18.38	18.08	18.82	19.29
	6H	20.07	20.70	20.57	21.19	21.67	18.17	18.79	18.67	19.28	19.76
	8H	20.23	20.79	20.75	21.30	21.79	18.34	18.90	18.85	19.41	19.90
	12H	20.34	20.83	20.85	21.33	21.89	18.45	18.94	18.96	19.44	20.00
12H	4H	19.54	20.21	20.02	20.69	21.16	17.64	18.32	18.13	18.80	19.27
	6H	20.07	20.63	20.58	21.14	21.63	18.21	18.77	18.72	19.28	19.77
	8H	20.27	20.76	20.78	21.25	21.82	18.42	18.91	18.93	19.41	19.97