

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: P1217472

Luminaire Tested: S125DRP-H865D830-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217472
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-H865D830-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

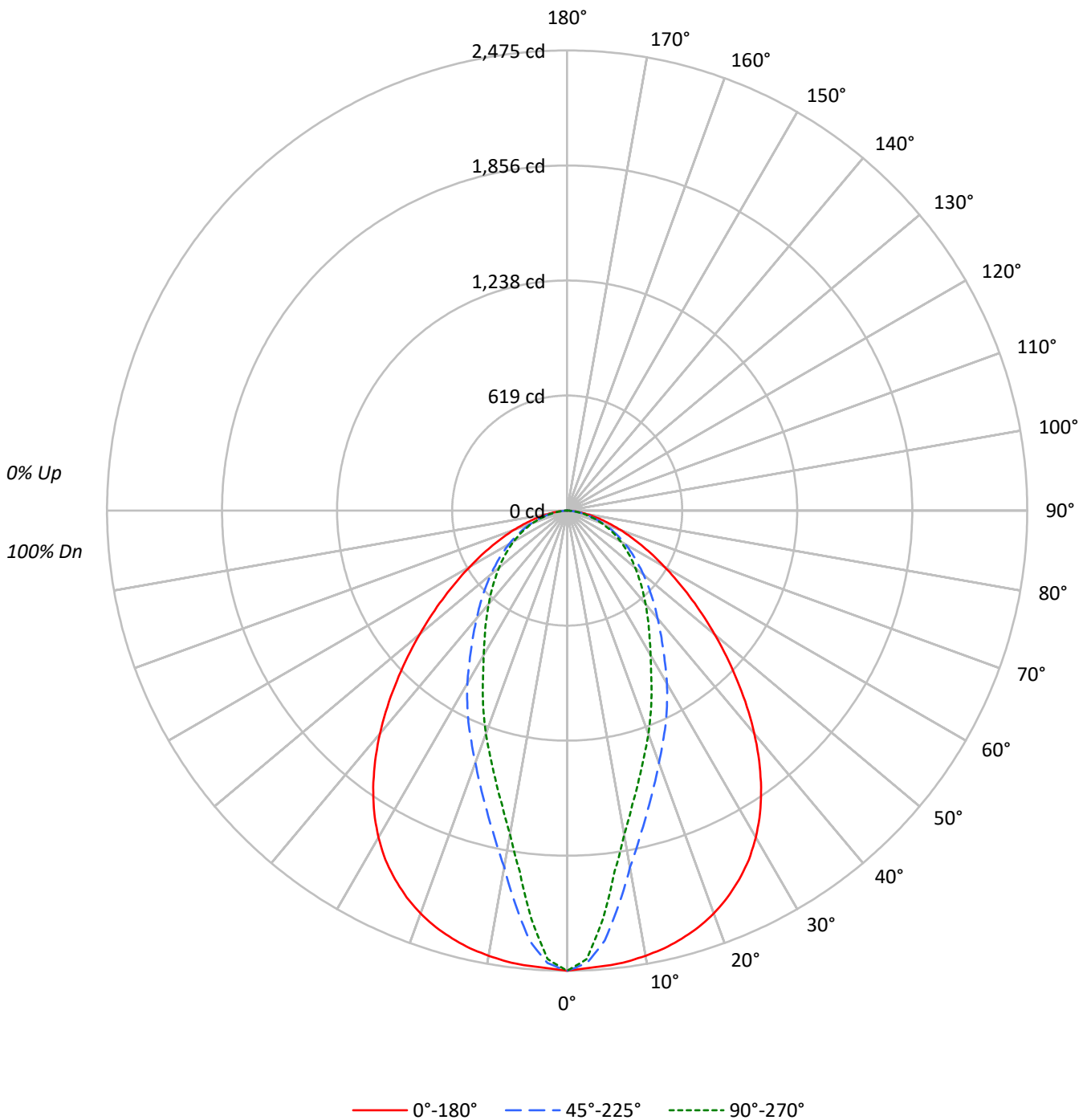
Lumens per Lamp: N/A
Luminaire Lumens: 3525.7 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 30.9
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: P1217472

CATALOG NUMBER: S125DRP-H865D830-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°	17499	17499	17499
5°	17437	16472	15644
10°	17451	13986	12692
15°	17444	12227	10933
20°	17352	10854	9609
25°	17080	9795	8372
30°	16570	8761	7318
35°	15699	7737	6612
40°	14455	6977	6056
45°	12952	6379	5609
50°	11381	5896	5248
55°	9890	5476	4960
60°	8541	5096	4695
65°	7357	4741	4418
70°	6302	4334	4076
75°	5263	3778	3622
80°	4152	3090	3000
85°	2669	2117	2117

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12952 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.5	6.0
10°-20°	501.8	14.2
20°-30°	637.5	18.1
30°-40°	649.3	18.4
40°-50°	574.3	16.3
50°-60°	450.1	12.8
60°-70°	307.0	8.7
70°-80°	158.1	4.5
80°-90°	35.4	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°	1351.7	38.3
0°-40°	2000.9	56.8
0°-60°	3025.3	85.8
0°-90°	3525.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3525.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2475	2475	2475	2475	2475	
5°	2457	2445	2321	2230	2204	234
15°	2384	2016	1671	1522	1494	672
25°	2190	1555	1256	1106	1073	1006
35°	1819	1176	896	783	766	1132
45°	1296	833	638	569	561	999
55°	802	556	444	404	402	722
65°	440	339	283	262	264	440
75°	193	162	138	129	133	207
85°	33	31	26	24	26	43
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2475.4	2475.4	2475.4	2475.4	2475.4
2.5°	2462.9	2482.2	2435.7	2423.2	2414.1
5°	2457.2	2444.7	2321.2	2230.5	2204.5
7.5°	2448.1	2379.0	2135.3	1981.2	1957.4
10°	2431.1	2275.9	1948.3	1797.6	1768.1
12.5°	2411.9	2152.3	1801.0	1648.0	1619.6
15°	2383.5	2016.3	1670.6	1522.2	1493.8
17.5°	2349.5	1887.1	1552.8	1406.6	1379.4
20°	2306.5	1769.2	1442.8	1304.5	1277.3
22.5°	2253.2	1658.2	1345.3	1203.7	1174.2
25°	2189.7	1555.0	1255.8	1106.2	1073.3
27.5°	2117.2	1456.4	1164.0	1008.7	977.0
30°	2029.9	1360.1	1073.3	922.6	896.5
32.5°	1931.3	1267.1	980.4	847.8	826.3
35°	1819.1	1176.5	896.5	783.2	766.2
37.5°	1696.7	1086.9	824.0	723.1	708.4
40°	1566.4	999.7	756.0	667.6	656.2
42.5°	1431.5	915.8	697.0	617.7	607.5
45°	1295.5	833.1	638.1	569.0	561.0
47.5°	1162.9	757.1	586.0	524.8	518.0
50°	1034.8	685.7	536.1	481.7	477.2
52.5°	914.7	618.8	487.4	442.0	439.8
55°	802.4	556.5	444.3	403.5	402.4
57.5°	699.3	497.6	401.2	366.1	366.1
60°	604.1	442.0	360.4	329.8	332.1
62.5°	519.1	388.8	321.9	295.8	298.1
65°	439.8	338.9	283.4	261.8	264.1
67.5°	368.4	291.3	245.9	227.8	230.1
70°	304.9	245.9	209.7	193.8	197.2
72.5°	245.9	204.0	173.4	160.9	164.3
75°	192.7	162.1	138.3	129.2	132.6
77.5°	145.1	123.5	106.5	98.6	102.0
80°	102.0	88.4	75.9	70.3	73.7
82.5°	63.5	56.7	49.9	45.3	47.6
85°	32.9	30.6	26.1	23.8	26.1
87.5°	11.3	11.3	10.2	9.1	10.2
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	18.82	20.31	19.19	20.62	20.93	16.21	17.69	16.57	18.01	18.32
	3H	20.41	21.74	20.79	22.07	22.43	17.85	19.18	18.23	19.51	19.87
	4H	20.94	22.19	21.34	22.54	22.92	18.42	19.67	18.82	20.02	20.40
	6H	21.28	22.43	21.69	22.80	23.19	18.80	19.95	19.21	20.32	20.71
	8H	21.36	22.45	21.78	22.84	23.25	18.90	19.99	19.32	20.38	20.78
	12H	21.39	22.44	21.82	22.82	23.25	18.94	19.99	19.37	20.37	20.80
4H	2H	19.06	20.31	19.46	20.66	21.04	16.89	18.14	17.29	18.49	18.87
	3H	20.85	21.88	21.26	22.28	22.68	18.71	19.75	19.12	20.15	20.55
	4H	21.49	22.42	21.92	22.84	23.28	19.38	20.31	19.81	20.72	21.16
	6H	21.94	22.75	22.40	23.20	23.66	19.84	20.65	20.30	21.10	21.56
	8H	22.06	22.82	22.52	23.26	23.73	19.97	20.72	20.43	21.17	21.63
	12H	22.12	22.79	22.60	23.27	23.75	20.04	20.71	20.52	21.19	21.66
8H	4H	21.60	22.36	22.06	22.80	23.27	19.67	20.43	20.14	20.87	21.34
	6H	22.13	22.75	22.63	23.24	23.72	20.22	20.85	20.72	21.34	21.82
	8H	22.29	22.85	22.80	23.36	23.85	20.39	20.95	20.91	21.46	21.95
	12H	22.40	22.89	22.91	23.38	23.95	20.51	21.00	21.02	21.49	22.06
12H	4H	21.59	22.26	22.07	22.74	23.22	19.70	20.37	20.18	20.85	21.32
	6H	22.12	22.68	22.64	23.19	23.68	20.26	20.82	20.78	21.33	21.82
	8H	22.32	22.81	22.83	23.31	23.87	20.48	20.97	20.99	21.46	22.03