

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: P1217473

Luminaire Tested: S125DRP-H865D835-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217473
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-H865D835-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

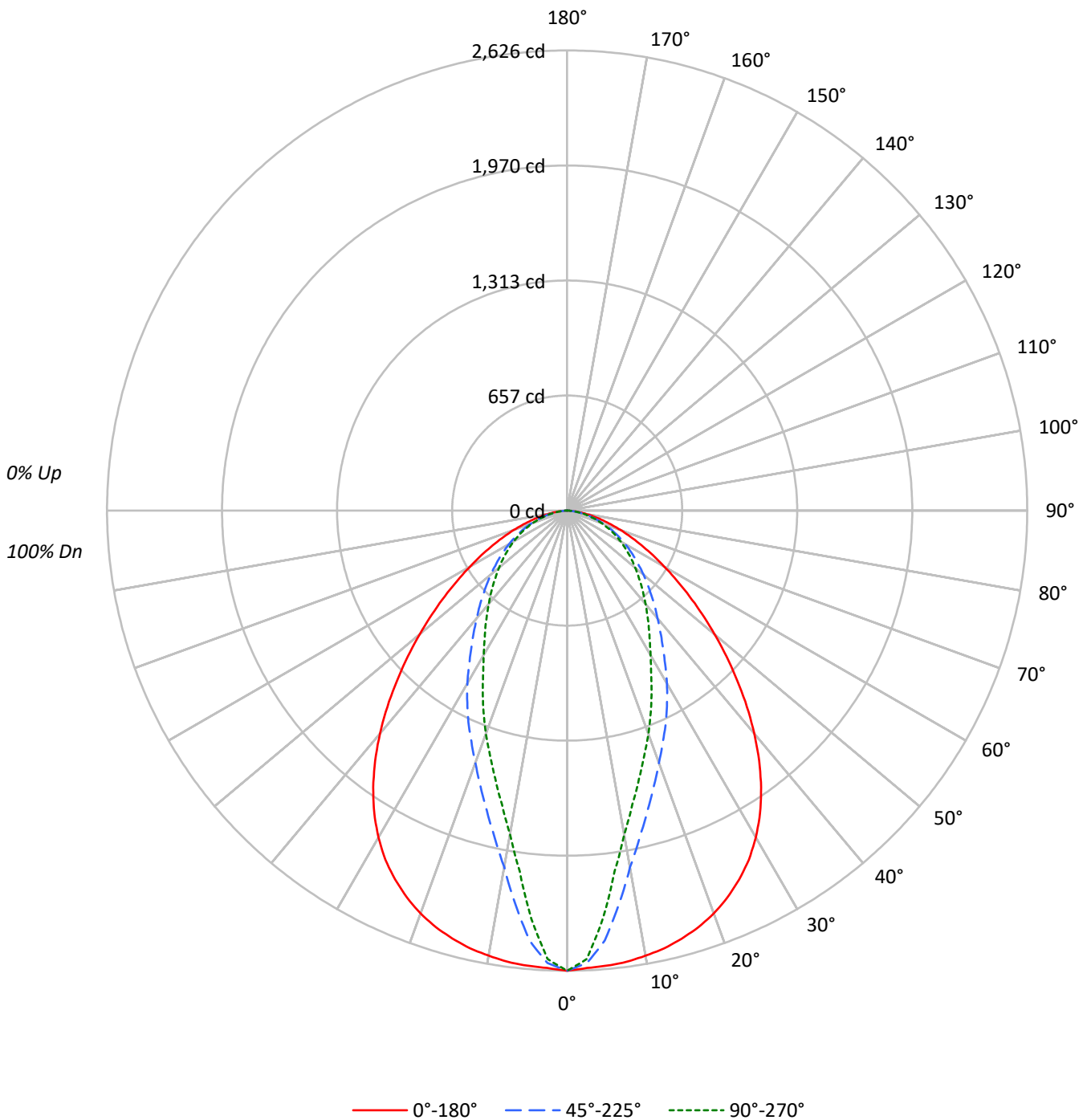
Lumens per Lamp: N/A
Luminaire Lumens: 3740.7 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

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

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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	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°	18565	18565	18565
5°	18500	17476	16598
10°	18516	14838	13466
15°	18508	12972	11599
20°	18410	11516	10195
25°	18121	10393	8883
30°	17581	9296	7765
35°	16656	8209	7015
40°	15336	7402	6425
45°	13742	6768	5951
50°	12075	6256	5568
55°	10494	5810	5262
60°	9061	5407	4981
65°	7805	5028	4687
70°	6687	4599	4324
75°	5583	4007	3843
80°	4405	3281	3184
85°	2831	2247	2247

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13742 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.4	6.0
10°-20°	532.4	14.2
20°-30°	676.3	18.1
30°-40°	688.8	18.4
40°-50°	609.3	16.3
50°-60°	477.5	12.8
60°-70°	325.7	8.7
70°-80°	167.7	4.5
80°-90°	37.5	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°	1434.1	38.3
0°-40°	2122.9	56.8
0°-60°	3209.8	85.8
0°-90°	3740.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3740.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2626	2626	2626	2626	2626	
5°	2607	2594	2463	2366	2339	248
15°	2529	2139	1772	1615	1585	713
25°	2323	1650	1332	1174	1139	1068
35°	1930	1248	951	831	813	1201
45°	1374	884	677	604	595	1060
55°	851	590	471	428	427	766
65°	467	360	301	278	280	467
75°	204	172	147	137	141	220
85°	35	32	28	25	28	46
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2626.2	2626.2	2626.2	2626.2	2626.2
2.5°	2613.0	2633.5	2584.2	2570.9	2561.3
5°	2607.0	2593.8	2462.7	2366.5	2338.9
7.5°	2597.4	2524.0	2265.5	2102.0	2076.7
10°	2579.4	2414.6	2067.1	1907.2	1875.9
12.5°	2558.9	2283.5	1910.8	1748.4	1718.4
15°	2528.8	2139.2	1772.5	1615.0	1584.9
17.5°	2492.8	2002.2	1647.4	1492.3	1463.4
20°	2447.1	1877.1	1530.8	1384.1	1355.2
22.5°	2390.6	1759.3	1427.4	1277.0	1245.8
25°	2323.2	1649.8	1332.4	1173.6	1138.8
27.5°	2246.3	1545.2	1235.0	1070.2	1036.6
30°	2153.7	1443.0	1138.8	978.8	951.2
32.5°	2049.1	1344.4	1040.2	899.5	876.6
35°	1930.0	1248.2	951.2	830.9	812.9
37.5°	1800.1	1153.2	874.2	767.2	751.6
40°	1661.8	1060.6	802.1	708.3	696.2
42.5°	1518.8	971.6	739.5	655.4	644.5
45°	1374.5	883.8	677.0	603.7	595.2
47.5°	1233.8	803.3	621.7	556.8	549.5
50°	1097.9	727.5	568.8	511.1	506.3
52.5°	970.4	656.6	517.1	469.0	466.6
55°	851.4	590.4	471.4	428.1	426.9
57.5°	741.9	527.9	425.7	388.4	388.4
60°	640.9	469.0	382.4	349.9	352.3
62.5°	550.7	412.5	341.5	313.9	316.3
65°	466.6	359.5	300.6	277.8	280.2
67.5°	390.8	309.0	260.9	241.7	244.1
70°	323.5	260.9	222.5	205.6	209.2
72.5°	260.9	216.4	184.0	170.8	174.4
75°	204.4	172.0	146.7	137.1	140.7
77.5°	153.9	131.1	113.0	104.6	108.2
80°	108.2	93.8	80.6	74.6	78.2
82.5°	67.3	60.1	52.9	48.1	50.5
85°	34.9	32.5	27.7	25.3	27.7
87.5°	12.0	12.0	10.8	9.6	10.8
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	19.03	20.51	19.39	20.83	21.14	16.41	17.90	16.78	18.21	18.53
	3H	20.61	21.94	20.99	22.27	22.64	18.06	19.39	18.43	19.72	20.08
	4H	21.15	22.40	21.55	22.74	23.12	18.63	19.88	19.03	20.23	20.61
	6H	21.48	22.64	21.90	23.00	23.40	19.00	20.16	19.42	20.52	20.92
	8H	21.56	22.66	21.99	23.05	23.45	19.10	20.20	19.53	20.59	20.99
	12H	21.59	22.64	22.02	23.03	23.46	19.15	20.20	19.58	20.58	21.01
4H	2H	19.27	20.52	19.67	20.87	21.24	17.10	18.35	17.50	18.70	19.08
	3H	21.05	22.09	21.46	22.49	22.89	18.92	19.95	19.33	20.35	20.76
	4H	21.70	22.63	22.13	23.05	23.48	19.58	20.51	20.01	20.93	21.37
	6H	22.15	22.96	22.61	23.40	23.86	20.05	20.86	20.51	21.30	21.76
	8H	22.26	23.02	22.73	23.47	23.93	20.17	20.93	20.64	21.37	21.84
	12H	22.33	23.00	22.81	23.48	23.95	20.24	20.92	20.72	21.39	21.87
8H	4H	21.80	22.56	22.27	23.01	23.47	19.88	20.64	20.34	21.08	21.55
	6H	22.33	22.96	22.83	23.45	23.93	20.43	21.05	20.93	21.54	22.02
	8H	22.49	23.05	23.01	23.56	24.05	20.60	21.16	21.11	21.67	22.16
	12H	22.60	23.09	23.11	23.59	24.15	20.71	21.20	21.22	21.70	22.26
12H	4H	21.80	22.47	22.28	22.95	23.42	19.90	20.58	20.39	21.06	21.53
	6H	22.33	22.89	22.84	23.40	23.89	20.47	21.03	20.98	21.54	22.03
	8H	22.53	23.02	23.04	23.51	24.08	20.68	21.17	21.19	21.67	22.23