

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: P1217455

Luminaire Tested: S125DRP-H485D835-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217455
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-H485D835-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

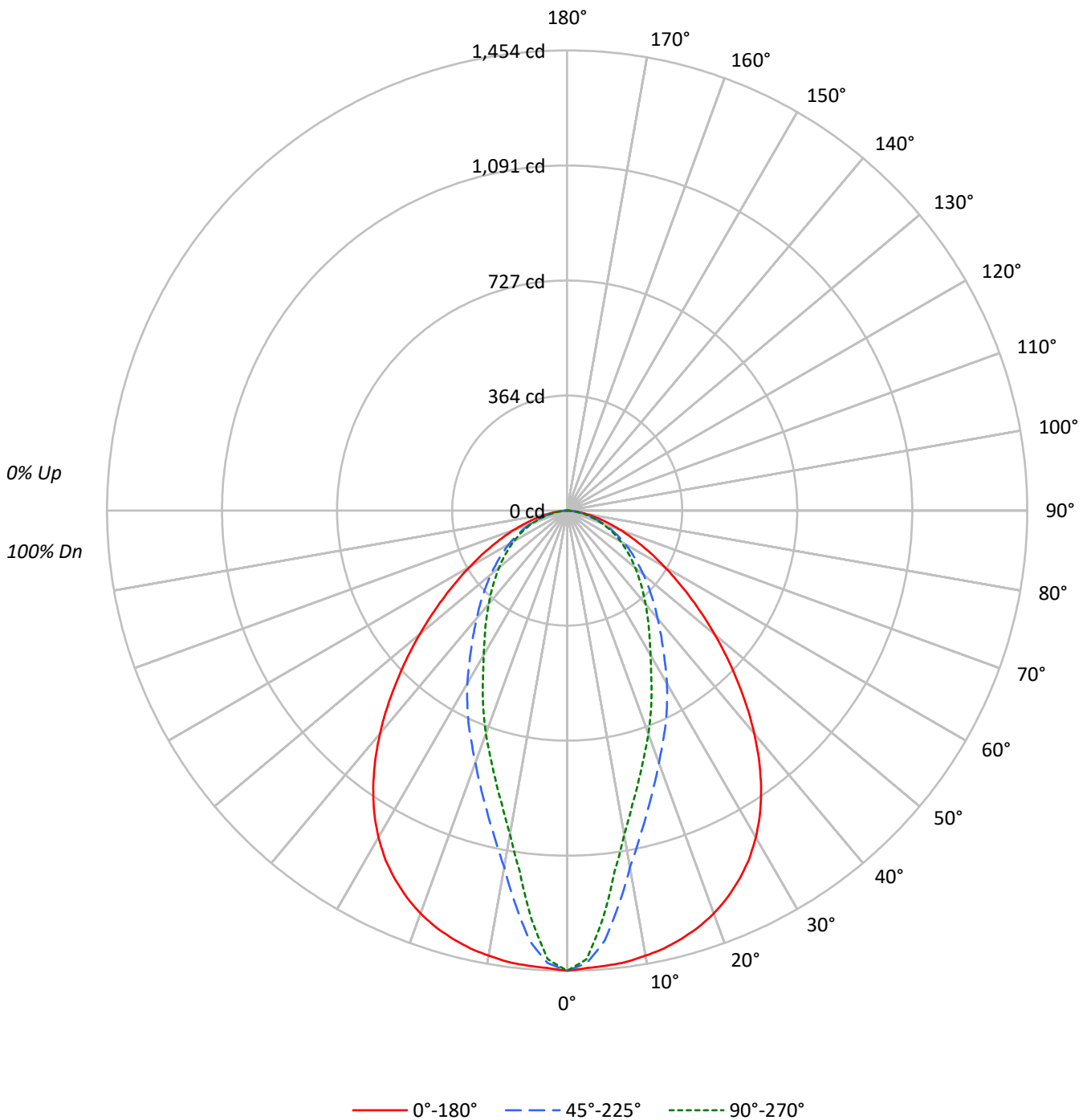
Lumens per Lamp: N/A
Luminaire Lumens: 2071.1 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 17.3
Input Voltage (V): 120
Input Current (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	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°	10280	10280	10280
5°	10243	9676	9190
10°	10251	8216	7455
15°	10248	7183	6422
20°	10193	6376	5645
25°	10033	5754	4918
30°	9734	5147	4299
35°	9222	4545	3884
40°	8491	4098	3558
45°	7608	3747	3295
50°	6686	3463	3083
55°	5810	3217	2914
60°	5018	2993	2758
65°	4321	2783	2594
70°	3702	2546	2394
75°	3092	2218	2128
80°	2439	1816	1763
85°	1565	1241	1241

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7608 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.8	6.0
10°-20°	294.7	14.2
20°-30°	374.5	18.1
30°-40°	381.4	18.4
40°-50°	337.4	16.3
50°-60°	264.4	12.8
60°-70°	180.3	8.7
70°-80°	92.9	4.5
80°-90°	20.8	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°	794.0	38.3
0°-40°	1175.4	56.8
0°-60°	1777.2	85.8
0°-90°	2071.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2071.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1454	1454	1454	1454	1454	
5°	1443	1436	1364	1310	1295	137
15°	1400	1184	981	894	878	395
25°	1286	914	738	650	630	591
35°	1069	691	527	460	450	665
45°	761	489	375	334	330	587
55°	471	327	261	237	236	424
65°	258	199	166	154	155	259
75°	113	95	81	76	78	122
85°	19	18	15	14	15	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1454.1	1454.1	1454.1	1454.1	1454.1
2.5°	1446.8	1458.1	1430.8	1423.5	1418.1
5°	1443.4	1436.1	1363.5	1310.3	1295.0
7.5°	1438.1	1397.5	1254.3	1163.8	1149.8
10°	1428.1	1336.9	1144.5	1055.9	1038.6
12.5°	1416.8	1264.3	1057.9	968.1	951.4
15°	1400.2	1184.4	981.4	894.2	877.5
17.5°	1380.2	1108.5	912.1	826.2	810.3
20°	1354.9	1039.3	847.5	766.3	750.3
22.5°	1323.6	974.0	790.3	707.1	689.8
25°	1286.3	913.5	737.7	649.8	630.5
27.5°	1243.7	855.5	683.8	592.6	573.9
30°	1192.4	798.9	630.5	542.0	526.6
32.5°	1134.5	744.4	575.9	498.0	485.4
35°	1068.6	691.1	526.6	460.1	450.1
37.5°	996.7	638.5	484.0	424.8	416.1
40°	920.1	587.2	444.1	392.1	385.5
42.5°	840.9	538.0	409.5	362.9	356.9
45°	761.0	489.4	374.8	334.2	329.6
47.5°	683.1	444.7	344.2	308.3	304.3
50°	607.9	402.8	314.9	283.0	280.3
52.5°	537.3	363.5	286.3	259.7	258.3
55°	471.4	326.9	261.0	237.0	236.4
57.5°	410.8	292.3	235.7	215.0	215.0
60°	354.9	259.7	211.7	193.7	195.1
62.5°	304.9	228.4	189.1	173.8	175.1
65°	258.3	199.1	166.4	153.8	155.1
67.5°	216.4	171.1	144.5	133.8	135.2
70°	179.1	144.5	123.2	113.8	115.8
72.5°	144.5	119.8	101.9	94.5	96.5
75°	113.2	95.2	81.2	75.9	77.9
77.5°	85.2	72.6	62.6	57.9	59.9
80°	59.9	51.9	44.6	41.3	43.3
82.5°	37.3	33.3	29.3	26.6	28.0
85°	19.3	18.0	15.3	14.0	15.3
87.5°	6.7	6.7	6.0	5.3	6.0
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	16.97	18.46	17.34	18.77	19.09	14.36	15.84	14.72	16.16	16.47
	3H	18.56	19.89	18.94	20.22	20.58	16.00	17.33	16.38	17.66	18.02
	4H	19.09	20.34	19.49	20.69	21.07	16.57	17.82	16.98	18.17	18.55
	6H	19.43	20.58	19.84	20.95	21.34	16.95	18.10	17.36	18.47	18.86
	8H	19.51	20.61	19.94	21.00	21.40	17.05	18.14	17.47	18.53	18.93
	12H	19.54	20.59	19.97	20.97	21.40	17.09	18.14	17.52	18.52	18.95
4H	2H	17.21	18.46	17.61	18.81	19.19	15.04	16.29	15.44	16.64	17.02
	3H	19.00	20.03	19.41	20.43	20.83	16.86	17.90	17.27	18.30	18.70
	4H	19.64	20.58	20.08	20.99	21.43	17.53	18.46	17.96	18.87	19.31
	6H	20.10	20.91	20.55	21.35	21.81	17.99	18.80	18.45	19.25	19.71
	8H	20.21	20.97	20.68	21.41	21.88	18.12	18.87	18.58	19.32	19.78
	12H	20.27	20.95	20.75	21.43	21.90	18.19	18.86	18.67	19.34	19.81
8H	4H	19.75	20.51	20.22	20.95	21.42	17.82	18.58	18.29	19.03	19.49
	6H	20.28	20.90	20.78	21.39	21.87	18.37	19.00	18.87	19.49	19.97
	8H	20.44	21.00	20.96	21.51	22.00	18.54	19.10	19.06	19.61	20.10
	12H	20.55	21.04	21.06	21.53	22.10	18.66	19.15	19.17	19.64	20.21
12H	4H	19.74	20.42	20.22	20.90	21.37	17.85	18.52	18.33	19.00	19.47
	6H	20.27	20.83	20.79	21.34	21.83	18.41	18.97	18.93	19.48	19.97
	8H	20.47	20.97	20.98	21.46	22.02	18.63	19.12	19.14	19.61	20.18