

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: P1217442

Luminaire Tested: S125DRP-H1005D935-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217442
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-H1005D935-X4F0-XX-UDD-G-W
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

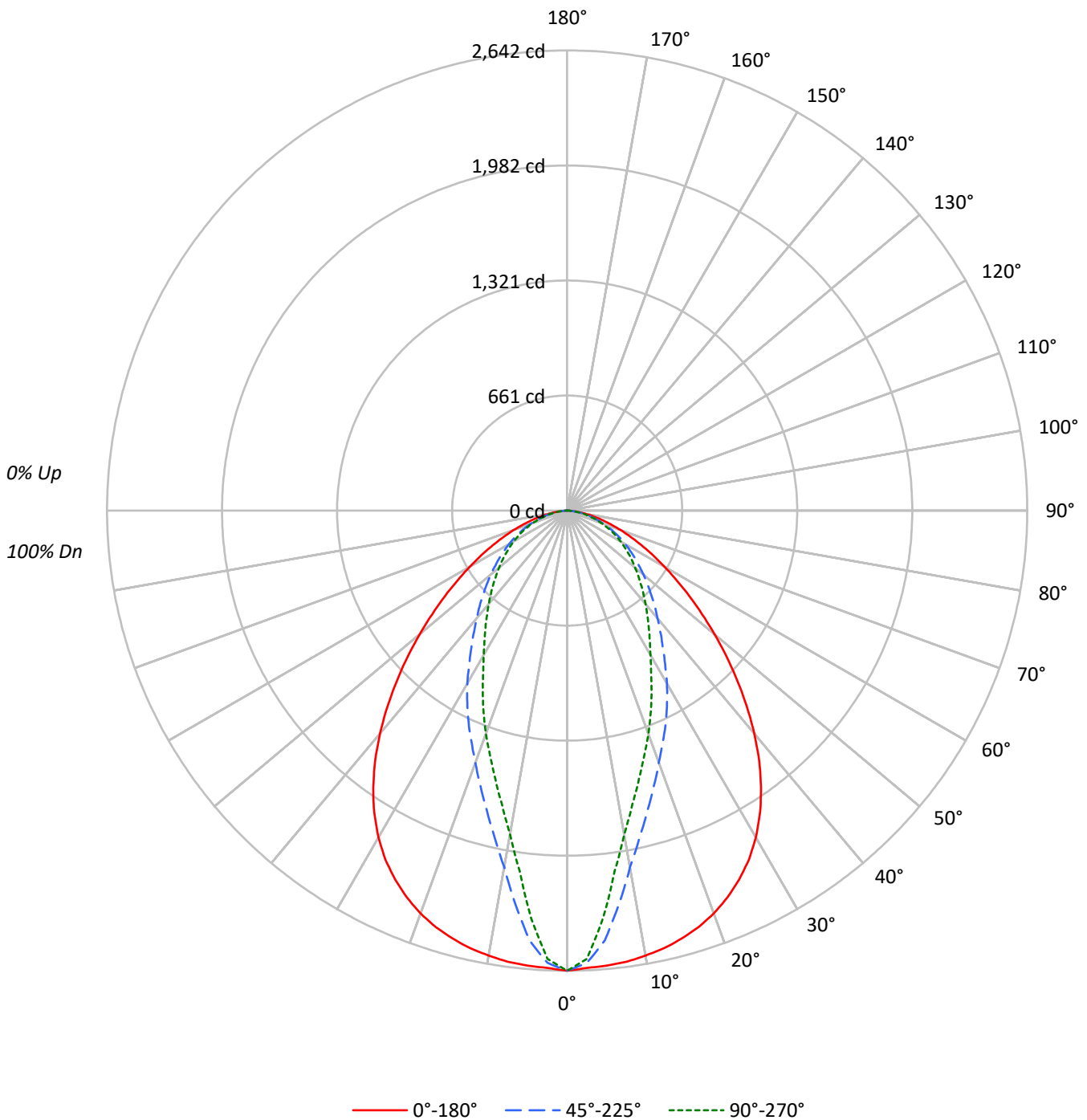
Lumens per Lamp: N/A
Luminaire Lumens: 3762.4 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 36.6
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	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				87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75				75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65				65
4	87	76	68	62	85	75	67	62	72	66	61	70	64	60	68	63	59	57				57
5	80	69	61	55	78	68	60	54	66	59	54	64	58	53	62	57	53	51				51
6	75	63	55	49	73	62	54	49	60	53	48	59	52	48	57	52	47	46				46
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43	41				41
8	66	53	45	40	64	52	45	40	51	44	40	50	44	39	49	43	39	37				37
9	62	49	42	37	60	49	41	36	48	41	36	47	40	36	46	40	36	34				34
10	58	46	39	34	57	45	38	34	44	38	33	44	38	33	43	37	33	32				32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18674	18674	18674
5°	18607	17578	16693
10°	18623	14925	13544
15°	18615	13048	11667
20°	18516	11583	10255
25°	18227	10453	8934
30°	17683	9350	7810
35°	16753	8256	7056
40°	15425	7445	6463
45°	13821	6807	5986
50°	12145	6292	5600
55°	10554	5843	5292
60°	9115	5438	5011
65°	7850	5058	4714
70°	6724	4626	4349
75°	5616	4032	3865
80°	4433	3298	3200
85°	2847	2255	2255

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13821 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.7	6.0
10°-20°	535.4	14.2
20°-30°	680.2	18.1
30°-40°	692.8	18.4
40°-50°	612.8	16.3
50°-60°	480.3	12.8
60°-70°	327.6	8.7
70°-80°	168.7	4.5
80°-90°	37.7	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°	1442.4	38.3
0°-40°	2135.2	56.8
0°-60°	3228.4	85.8
0°-90°	3762.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3762.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2642	2642	2642	2642	2642	
5°	2622	2609	2477	2380	2352	250
15°	2544	2152	1783	1624	1594	718
25°	2337	1659	1340	1180	1145	1074
35°	1941	1255	957	836	818	1208
45°	1382	889	681	607	599	1066
55°	856	594	474	431	429	771
65°	469	362	302	279	282	470
75°	206	173	148	138	142	221
85°	35	33	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°	2641.5	2641.5	2641.5	2641.5	2641.5
2.5°	2628.2	2648.8	2599.2	2585.9	2576.2
5°	2622.1	2608.8	2477.0	2380.2	2352.4
7.5°	2612.5	2538.7	2278.7	2114.2	2088.8
10°	2594.3	2428.6	2079.1	1918.2	1886.8
12.5°	2573.8	2296.8	1921.9	1758.6	1728.3
15°	2543.5	2151.7	1782.8	1624.3	1594.1
17.5°	2507.2	2013.8	1657.0	1501.0	1471.9
20°	2461.3	1888.0	1539.7	1392.1	1363.1
22.5°	2404.4	1769.5	1435.6	1284.5	1253.0
25°	2336.7	1659.4	1340.1	1180.4	1145.4
27.5°	2259.3	1554.2	1242.1	1076.4	1042.6
30°	2166.2	1451.4	1145.4	984.5	956.7
32.5°	2060.9	1352.2	1046.2	904.7	881.7
35°	1941.2	1255.4	956.7	835.7	817.6
37.5°	1810.6	1159.9	879.3	771.6	755.9
40°	1671.5	1066.8	806.7	712.4	700.3
42.5°	1527.6	977.3	743.8	659.2	648.3
45°	1382.4	889.0	680.9	607.2	598.7
47.5°	1240.9	807.9	625.3	560.0	552.7
50°	1104.3	731.7	572.1	514.0	509.2
52.5°	976.0	660.4	520.1	471.7	469.3
55°	856.3	593.9	474.1	430.6	429.4
57.5°	746.2	531.0	428.2	390.7	390.7
60°	644.7	471.7	384.6	352.0	354.4
62.5°	553.9	414.9	343.5	315.7	318.1
65°	469.3	361.6	302.4	279.4	281.8
67.5°	393.1	310.8	262.5	243.1	245.5
70°	325.3	262.5	223.8	206.8	210.4
72.5°	262.5	217.7	185.0	171.7	175.4
75°	205.6	173.0	147.6	137.9	141.5
77.5°	154.8	131.8	113.7	105.2	108.9
80°	108.9	94.3	81.0	75.0	78.6
82.5°	67.7	60.5	53.2	48.4	50.8
85°	35.1	32.7	27.8	25.4	27.8
87.5°	12.1	12.1	10.9	9.7	10.9
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	19.05	20.53	19.41	20.85	21.16	16.43	17.92	16.80	18.23	18.55
	3H	20.63	21.97	21.01	22.29	22.66	18.08	19.41	18.45	19.74	20.10
	4H	21.17	22.42	21.57	22.77	23.14	18.65	19.90	19.05	20.25	20.63
	6H	21.50	22.66	21.92	23.02	23.42	19.03	20.18	19.44	20.55	20.94
	8H	21.58	22.68	22.01	23.07	23.47	19.12	20.22	19.55	20.61	21.01
	12H	21.61	22.66	22.05	23.05	23.48	19.17	20.22	19.60	20.60	21.03
4H	2H	19.29	20.54	19.69	20.89	21.26	17.12	18.37	17.52	18.72	19.10
	3H	21.07	22.11	21.48	22.51	22.91	18.94	19.97	19.35	20.37	20.78
	4H	21.72	22.65	22.15	23.07	23.50	19.60	20.53	20.04	20.95	21.39
	6H	22.17	22.98	22.63	23.42	23.88	20.07	20.88	20.53	21.32	21.78
	8H	22.29	23.04	22.75	23.49	23.95	20.19	20.95	20.66	21.39	21.86
	12H	22.35	23.02	22.83	23.50	23.97	20.26	20.94	20.74	21.41	21.89
8H	4H	21.83	22.58	22.29	23.03	23.49	19.90	20.66	20.36	21.10	21.57
	6H	22.35	22.98	22.85	23.47	23.95	20.45	21.07	20.95	21.56	22.04
	8H	22.51	23.07	23.03	23.58	24.07	20.62	21.18	21.13	21.69	22.18
	12H	22.62	23.11	23.13	23.61	24.17	20.73	21.22	21.24	21.72	22.28
12H	4H	21.82	22.49	22.30	22.97	23.44	19.92	20.60	20.41	21.08	21.55
	6H	22.35	22.91	22.86	23.42	23.91	20.49	21.05	21.00	21.56	22.05
	8H	22.55	23.04	23.06	23.53	24.10	20.70	21.19	21.21	21.69	22.25