

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: P1217487

Luminaire Tested: S125DRP-S1005D935-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217487
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-S1005D935-X4F0-XX-UDD-G-W
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

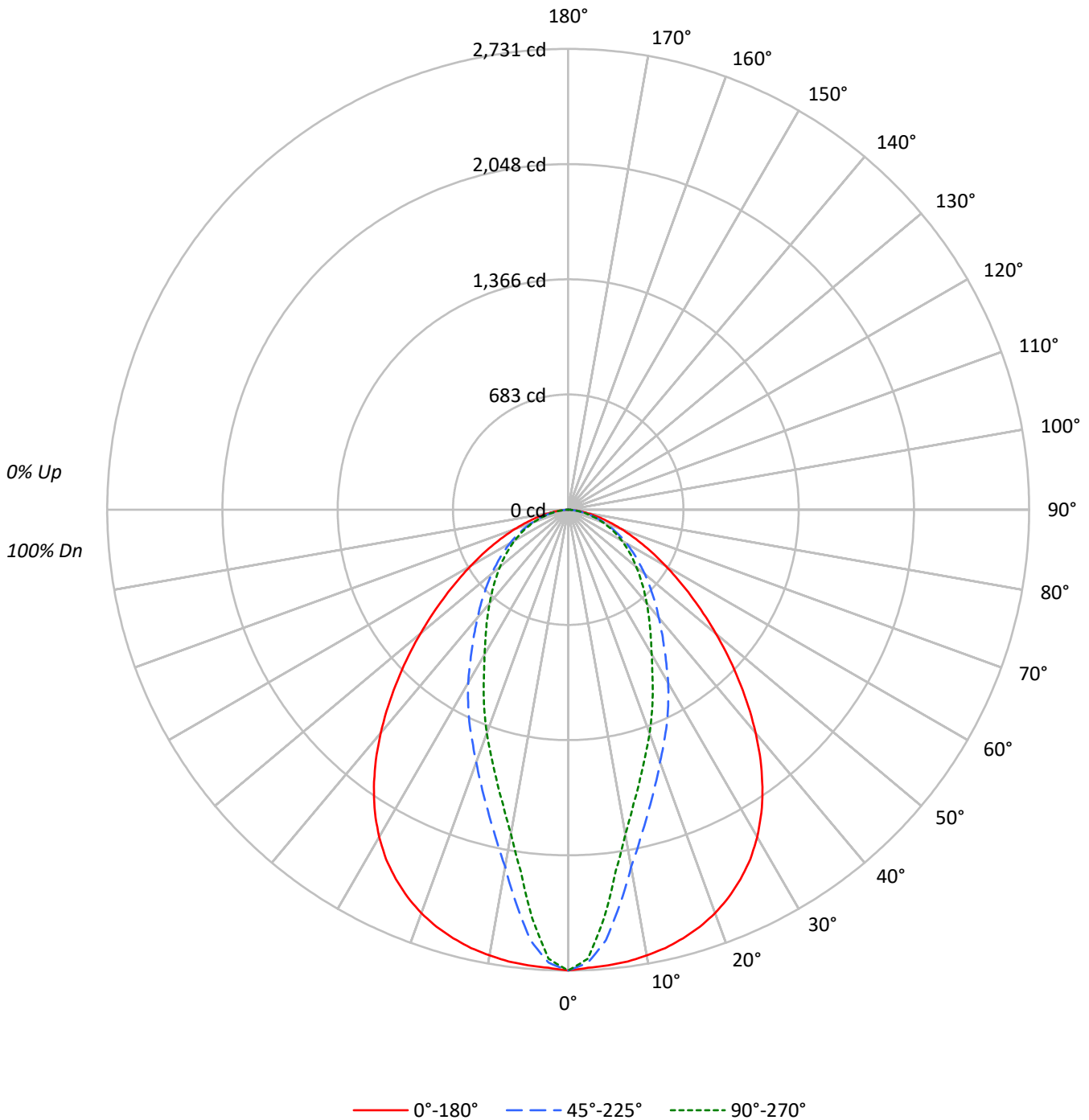
Lumens per Lamp: N/A
Luminaire Lumens: 3889.4 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 41.9
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	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°	19304	19304	19304
5°	19236	18172	17258
10°	19252	15429	14001
15°	19244	13488	12061
20°	19142	11974	10601
25°	18842	10806	9236
30°	18279	9666	8073
35°	17319	8535	7294
40°	15946	7696	6680
45°	14288	7037	6187
50°	12554	6504	5789
55°	10910	6040	5471
60°	9422	5622	5179
65°	8114	5229	4873
70°	6951	4781	4498
75°	5807	4165	3996
80°	4580	3412	3310
85°	2944	2336	2336

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14288 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.4	6.0
10°-20°	553.5	14.2
20°-30°	703.2	18.1
30°-40°	716.2	18.4
40°-50°	633.5	16.3
50°-60°	496.5	12.8
60°-70°	338.6	8.7
70°-80°	174.4	4.5
80°-90°	39.0	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°	1491.1	38.3
0°-40°	2207.4	56.8
0°-60°	3337.4	85.8
0°-90°	3889.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3889.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2731	2731	2731	2731	2731	
5°	2711	2697	2561	2461	2432	258
15°	2629	2224	1843	1679	1648	742
25°	2416	1715	1385	1220	1184	1110
35°	2007	1298	989	864	845	1249
45°	1429	919	704	628	619	1102
55°	885	614	490	445	444	797
65°	485	374	313	289	291	486
75°	213	179	152	142	146	229
85°	36	34	29	26	29	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2730.7	2730.7	2730.7	2730.7	2730.7
2.5°	2717.0	2738.2	2686.9	2673.2	2663.2
5°	2710.7	2696.9	2560.7	2460.6	2431.9
7.5°	2700.7	2624.4	2355.6	2185.6	2159.3
10°	2681.9	2510.6	2149.3	1983.0	1950.5
12.5°	2660.7	2374.4	1986.8	1818.0	1786.7
15°	2629.4	2224.3	1843.0	1679.2	1647.9
17.5°	2591.9	2081.8	1712.9	1551.7	1521.6
20°	2544.4	1951.8	1591.7	1439.1	1409.1
22.5°	2485.6	1829.2	1484.1	1327.8	1295.3
25°	2415.6	1715.4	1385.4	1220.3	1184.1
27.5°	2335.6	1606.7	1284.1	1112.8	1077.8
30°	2239.3	1500.4	1184.1	1017.8	989.0
32.5°	2130.6	1397.9	1081.5	935.2	911.5
35°	2006.8	1297.8	989.0	864.0	845.2
37.5°	1871.7	1199.1	909.0	797.7	781.5
40°	1727.9	1102.8	834.0	736.4	723.9
42.5°	1579.2	1010.3	768.9	681.4	670.2
45°	1429.1	919.0	703.9	627.7	618.9
47.5°	1282.8	835.2	646.4	578.9	571.4
50°	1141.5	756.4	591.4	531.4	526.4
52.5°	1009.0	682.7	537.6	487.6	485.1
55°	885.2	613.9	490.1	445.1	443.9
57.5°	771.4	548.9	442.6	403.9	403.9
60°	666.4	487.6	397.6	363.8	366.3
62.5°	572.6	428.9	355.1	326.3	328.8
65°	485.1	373.8	312.6	288.8	291.3
67.5°	406.4	321.3	271.3	251.3	253.8
70°	336.3	271.3	231.3	213.8	217.6
72.5°	271.3	225.1	191.3	177.5	181.3
75°	212.6	178.8	152.5	142.5	146.3
77.5°	160.0	136.3	117.5	108.8	112.5
80°	112.5	97.5	83.8	77.5	81.3
82.5°	70.0	62.5	55.0	50.0	52.5
85°	36.3	33.8	28.8	26.3	28.8
87.5°	12.5	12.5	11.3	10.0	11.3
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	19.16	20.65	19.53	20.96	21.28	16.55	18.03	16.91	18.35	18.66
	3H	20.75	22.08	21.13	22.41	22.77	18.19	19.52	18.57	19.85	20.21
	4H	21.28	22.53	21.68	22.88	23.26	18.77	20.01	19.17	20.36	20.74
	6H	21.62	22.77	22.03	23.14	23.53	19.14	20.29	19.55	20.66	21.05
	8H	21.70	22.80	22.13	23.19	23.59	19.24	20.33	19.66	20.72	21.13
	12H	21.73	22.78	22.16	23.16	23.59	19.28	20.33	19.71	20.71	21.14
4H	2H	19.40	20.65	19.80	21.00	21.38	17.23	18.48	17.63	18.83	19.21
	3H	21.19	22.22	21.60	22.62	23.02	19.05	20.09	19.46	20.49	20.89
	4H	21.83	22.76	22.27	23.18	23.62	19.72	20.65	20.15	21.07	21.51
	6H	22.29	23.09	22.74	23.54	24.00	20.18	20.99	20.64	21.44	21.90
	8H	22.40	23.16	22.86	23.60	24.07	20.31	21.06	20.77	21.51	21.98
	12H	22.46	23.14	22.94	23.61	24.09	20.38	21.05	20.86	21.53	22.00
8H	4H	21.94	22.70	22.40	23.14	23.61	20.01	20.77	20.48	21.22	21.68
	6H	22.47	23.09	22.97	23.58	24.06	20.57	21.19	21.06	21.68	22.16
	8H	22.63	23.19	23.15	23.70	24.19	20.73	21.29	21.25	21.80	22.29
	12H	22.74	23.23	23.25	23.72	24.29	20.85	21.34	21.36	21.83	22.40
12H	4H	21.93	22.61	22.41	23.08	23.56	20.04	20.71	20.52	21.19	21.66
	6H	22.46	23.02	22.98	23.53	24.02	20.60	21.16	21.12	21.67	22.16
	8H	22.66	23.15	23.17	23.65	24.21	20.82	21.31	21.33	21.80	22.37