

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: P1217443

Luminaire Tested: S125DRP-H1005D940-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217443
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-H1005D940-X4F0-XX-UDD-G-W
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

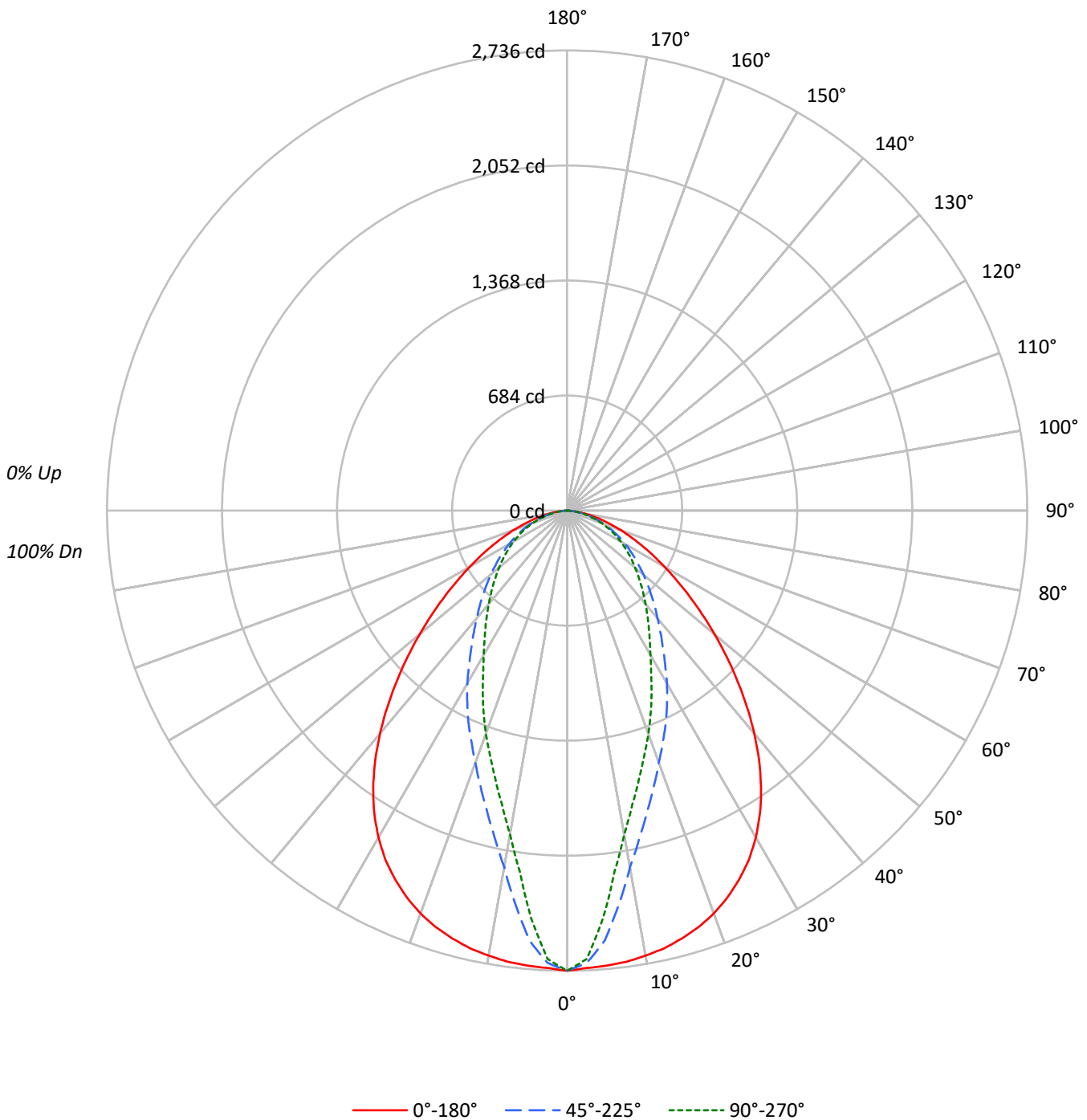
Lumens per Lamp: N/A
Luminaire Lumens: 3896.5 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

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	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°	19340	19340	19340
5°	19272	18205	17289
10°	19288	15457	14027
15°	19280	13513	12083
20°	19177	11996	10620
25°	18877	10826	9253
30°	18313	9683	8088
35°	17351	8551	7308
40°	15975	7710	6693
45°	14313	7050	6198
50°	12577	6516	5800
55°	10931	6052	5481
60°	9439	5631	5189
65°	8130	5239	4883
70°	6966	4789	4506
75°	5815	4174	4004
80°	4588	3416	3314
85°	2944	2336	2336

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14313 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.8	6.0
10°-20°	554.5	14.2
20°-30°	704.5	18.1
30°-40°	717.6	18.4
40°-50°	634.7	16.3
50°-60°	497.4	12.8
60°-70°	339.2	8.7
70°-80°	174.7	4.5
80°-90°	39.1	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°	1493.9	38.3
0°-40°	2211.4	56.8
0°-60°	3343.5	85.8
0°-90°	3896.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3896.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2736	2736	2736	2736	2736	
5°	2716	2702	2565	2465	2436	258
15°	2634	2228	1846	1682	1651	743
25°	2420	1719	1388	1223	1186	1112
35°	2010	1300	991	866	847	1251
45°	1432	921	705	629	620	1104
55°	887	615	491	446	445	798
65°	486	374	313	289	292	487
75°	213	179	153	143	147	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°	2735.7	2735.7	2735.7	2735.7	2735.7
2.5°	2721.9	2743.2	2691.9	2678.1	2668.1
5°	2715.7	2701.9	2565.4	2465.2	2436.3
7.5°	2705.7	2629.2	2359.9	2189.6	2163.3
10°	2686.9	2515.3	2153.3	1986.7	1954.1
12.5°	2665.6	2378.7	1990.4	1821.3	1790.0
15°	2634.3	2228.4	1846.4	1682.3	1651.0
17.5°	2596.7	2085.6	1716.1	1554.5	1524.4
20°	2549.1	1955.3	1594.6	1441.8	1411.7
22.5°	2490.2	1832.6	1486.9	1330.3	1297.7
25°	2420.1	1718.6	1387.9	1222.6	1186.2
27.5°	2339.9	1609.6	1286.4	1114.8	1079.8
30°	2243.4	1503.1	1186.2	1019.6	990.8
32.5°	2134.5	1400.4	1083.5	937.0	913.2
35°	2010.5	1300.2	990.8	865.6	846.8
37.5°	1875.2	1201.3	910.7	799.2	782.9
40°	1731.1	1104.8	835.5	737.8	725.3
42.5°	1582.1	1012.1	770.4	682.7	671.4
45°	1431.7	920.7	705.2	628.8	620.0
47.5°	1285.2	836.7	647.6	580.0	572.4
50°	1143.6	757.8	592.5	532.4	527.4
52.5°	1010.9	683.9	538.6	488.5	486.0
55°	886.9	615.0	491.0	445.9	444.7
57.5°	772.9	549.9	443.4	404.6	404.6
60°	667.6	488.5	398.3	364.5	367.0
62.5°	573.7	429.6	355.7	326.9	329.4
65°	486.0	374.5	313.2	289.4	291.9
67.5°	407.1	321.9	271.8	251.8	254.3
70°	337.0	271.8	231.7	214.2	218.0
72.5°	271.8	225.5	191.7	177.9	181.6
75°	212.9	179.1	152.8	142.8	146.6
77.5°	160.3	136.5	117.7	109.0	112.7
80°	112.7	97.7	83.9	77.7	81.4
82.5°	70.1	62.6	55.1	50.1	52.6
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	19.17	20.65	19.53	20.97	21.28	16.55	18.04	16.92	18.35	18.67
	3H	20.75	22.09	21.13	22.42	22.78	18.20	19.53	18.58	19.86	20.22
	4H	21.29	22.54	21.69	22.89	23.27	18.77	20.02	19.17	20.37	20.75
	6H	21.63	22.78	22.04	23.15	23.54	19.15	20.30	19.56	20.67	21.06
	8H	21.70	22.80	22.13	23.19	23.59	19.24	20.34	19.67	20.73	21.13
	12H	21.74	22.79	22.17	23.17	23.60	19.29	20.34	19.72	20.72	21.15
4H	2H	19.41	20.66	19.81	21.01	21.39	17.24	18.49	17.64	18.84	19.22
	3H	21.19	22.23	21.60	22.63	23.03	19.06	20.10	19.47	20.50	20.90
	4H	21.84	22.77	22.27	23.19	23.63	19.72	20.66	20.16	21.07	21.51
	6H	22.29	23.10	22.75	23.54	24.01	20.19	21.00	20.65	21.44	21.90
	8H	22.41	23.16	22.87	23.61	24.07	20.31	21.07	20.78	21.51	21.98
	12H	22.47	23.14	22.95	23.62	24.09	20.38	21.06	20.87	21.54	22.01
8H	4H	21.95	22.70	22.41	23.15	23.62	20.02	20.78	20.49	21.22	21.69
	6H	22.48	23.10	22.97	23.59	24.07	20.57	21.19	21.07	21.69	22.16
	8H	22.64	23.19	23.15	23.70	24.19	20.74	21.30	21.26	21.81	22.30
	12H	22.74	23.23	23.25	23.73	24.29	20.85	21.35	21.36	21.84	22.40
12H	4H	21.94	22.61	22.42	23.09	23.56	20.05	20.72	20.53	21.20	21.67
	6H	22.47	23.03	22.98	23.54	24.03	20.61	21.17	21.13	21.68	22.17
	8H	22.67	23.16	23.18	23.65	24.22	20.82	21.32	21.33	21.81	22.37