

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: P1217461

Luminaire Tested: S125DRP-H485D940-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217461
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-H485D940-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

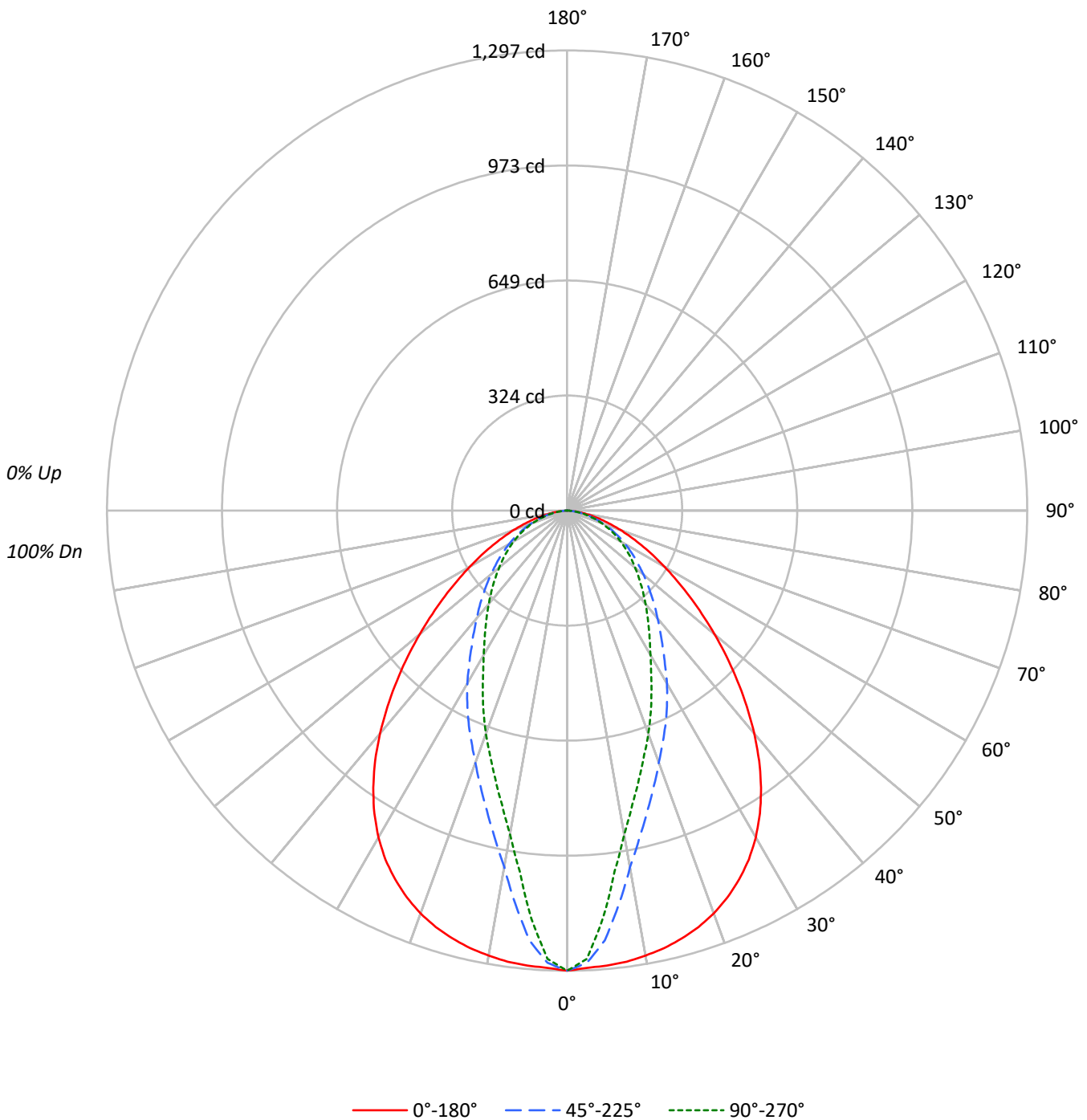
Lumens per Lamp: N/A
Luminaire Lumens: 1846.8 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 17.3
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°	9166	9166	9166
5°	9134	8628	8194
10°	9142	7326	6649
15°	9137	6405	5727
20°	9089	5686	5034
25°	8947	5131	4385
30°	8680	4589	3833
35°	8224	4053	3463
40°	7572	3654	3172
45°	6784	3341	2938
50°	5961	3088	2748
55°	5180	2868	2598
60°	4473	2669	2460
65°	3854	2482	2313
70°	3301	2269	2135
75°	2756	1978	1898
80°	2174	1620	1571
85°	1395	1111	1111

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6784 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.3	6.0
10°-20°	262.8	14.2
20°-30°	333.9	18.1
30°-40°	340.1	18.4
40°-50°	300.8	16.3
50°-60°	235.8	12.8
60°-70°	160.8	8.7
70°-80°	82.8	4.5
80°-90°	18.5	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°	708.0	38.3
0°-40°	1048.1	56.8
0°-60°	1584.7	85.8
0°-90°	1846.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1846.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1297	1297	1297	1297	1297	
5°	1287	1281	1216	1168	1155	122
15°	1248	1056	875	797	782	352
25°	1147	814	658	579	562	527
35°	953	616	470	410	401	593
45°	679	436	334	298	294	523
55°	420	292	233	211	211	378
65°	230	178	148	137	138	231
75°	101	85	72	68	70	109
85°	17	16	14	12	14	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1296.6	1296.6	1296.6	1296.6	1296.6
2.5°	1290.1	1300.2	1275.8	1269.3	1264.6
5°	1287.1	1280.6	1215.9	1168.4	1154.7
7.5°	1282.4	1246.2	1118.5	1037.8	1025.3
10°	1273.5	1192.1	1020.6	941.6	926.2
12.5°	1263.4	1127.4	943.4	863.2	848.4
15°	1248.5	1056.2	875.1	797.3	782.5
17.5°	1230.7	988.5	813.4	736.8	722.5
20°	1208.2	926.8	755.8	683.3	669.1
22.5°	1180.3	868.6	704.7	630.5	615.1
25°	1147.0	814.5	657.8	579.4	562.2
27.5°	1109.0	762.9	609.7	528.4	511.8
30°	1063.3	712.4	562.2	483.3	469.6
32.5°	1011.6	663.7	513.5	444.1	432.8
35°	952.9	616.3	469.6	410.2	401.3
37.5°	888.8	569.3	431.6	378.8	371.1
40°	820.5	523.6	396.0	349.7	343.7
42.5°	749.8	479.7	365.1	323.6	318.2
45°	678.6	436.4	334.2	298.0	293.9
47.5°	609.1	396.6	306.9	274.9	271.3
50°	542.0	359.2	280.8	252.3	249.9
52.5°	479.1	324.2	255.3	231.5	230.4
55°	420.3	291.5	232.7	211.4	210.8
57.5°	366.3	260.6	210.2	191.8	191.8
60°	316.4	231.5	188.8	172.8	174.0
62.5°	271.9	203.6	168.6	155.0	156.1
65°	230.4	177.5	148.4	137.1	138.3
67.5°	192.9	152.6	128.8	119.3	120.5
70°	159.7	128.8	109.8	101.5	103.3
72.5°	128.8	106.9	90.8	84.3	86.1
75°	100.9	84.9	72.4	67.7	69.5
77.5°	76.0	64.7	55.8	51.7	53.4
80°	53.4	46.3	39.8	36.8	38.6
82.5°	33.2	29.7	26.1	23.7	24.9
85°	17.2	16.0	13.7	12.5	13.7
87.5°	5.9	5.9	5.3	4.7	5.3
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	16.57	18.06	16.94	18.37	18.69	13.96	15.45	14.33	15.76	16.08
	3H	18.16	19.49	18.54	19.82	20.18	15.60	16.94	15.98	17.26	17.63
	4H	18.69	19.94	19.09	20.29	20.67	16.18	17.43	16.58	17.78	18.16
	6H	19.03	20.18	19.44	20.55	20.94	16.55	17.71	16.97	18.07	18.47
	8H	19.11	20.21	19.54	20.60	21.00	16.65	17.75	17.08	18.14	18.54
	12H	19.14	20.19	19.57	20.57	21.00	16.69	17.74	17.13	18.13	18.56
4H	2H	16.81	18.06	17.21	18.41	18.79	14.65	15.90	15.05	16.25	16.62
	3H	18.60	19.63	19.01	20.03	20.44	16.47	17.50	16.88	17.90	18.30
	4H	19.24	20.18	19.68	20.59	21.03	17.13	18.06	17.56	18.48	18.92
	6H	19.70	20.51	20.16	20.95	21.41	17.60	18.41	18.05	18.85	19.31
	8H	19.81	20.57	20.28	21.01	21.48	17.72	18.48	18.18	18.92	19.39
	12H	19.87	20.55	20.36	21.03	21.50	17.79	18.46	18.27	18.94	19.41
8H	4H	19.35	20.11	19.82	20.55	21.02	17.43	18.18	17.89	18.63	19.10
	6H	19.88	20.50	20.38	21.00	21.47	17.98	18.60	18.48	19.09	19.57
	8H	20.04	20.60	20.56	21.11	21.60	18.15	18.70	18.66	19.21	19.70
	12H	20.15	20.64	20.66	21.13	21.70	18.26	18.75	18.77	19.24	19.81
12H	4H	19.34	20.02	19.83	20.50	20.97	17.45	18.13	17.93	18.61	19.08
	6H	19.87	20.43	20.39	20.94	21.43	18.02	18.58	18.53	19.09	19.58
	8H	20.07	20.57	20.59	21.06	21.63	18.23	18.72	18.74	19.21	19.78