

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: P1217488

Luminaire Tested: S125DRP-S1005D940-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217488
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-S1005D940-X4F0-XX-UDD-G-W
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC
CORE LIGHT ENGINE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

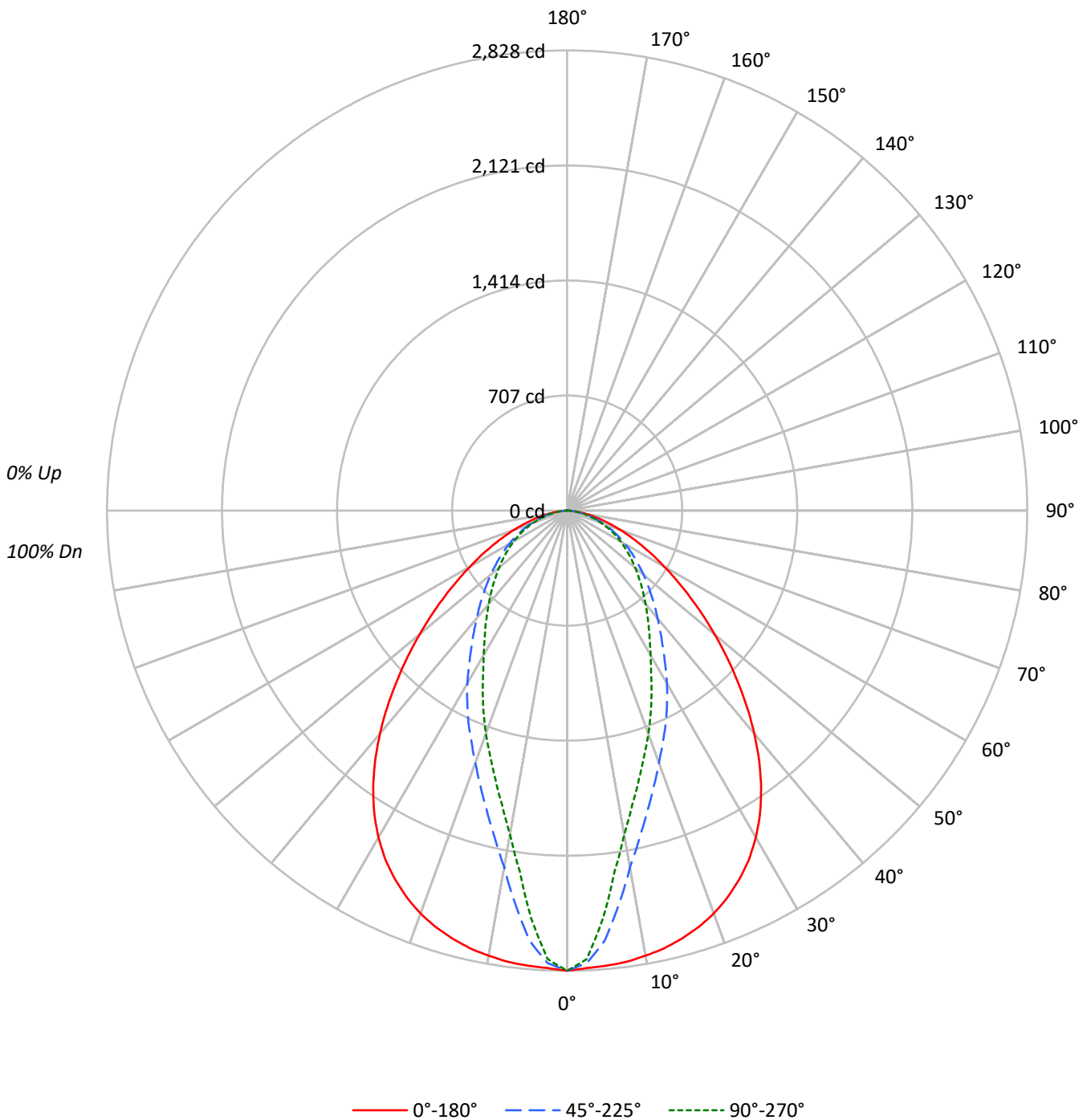
Lumens per Lamp: N/A
Luminaire Lumens: 4028.2 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

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	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°	19993	19993	19993
5°	19922	18819	17873
10°	19939	15979	14501
15°	19930	13969	12491
20°	19825	12401	10979
25°	19514	11192	9565
30°	18932	10010	8361
35°	17937	8840	7555
40°	16515	7971	6919
45°	14797	7288	6408
50°	13003	6736	5996
55°	11300	6256	5666
60°	9759	5822	5364
65°	8404	5415	5047
70°	7199	4952	4657
75°	6012	4316	4138
80°	4743	3534	3428
85°	3050	2417	2417

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14797 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.7	6.0
10°-20°	573.3	14.2
20°-30°	728.3	18.1
30°-40°	741.8	18.4
40°-50°	656.1	16.3
50°-60°	514.2	12.8
60°-70°	350.7	8.7
70°-80°	180.6	4.5
80°-90°	40.4	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°	1544.3	38.3
0°-40°	2286.1	56.8
0°-60°	3456.4	85.8
0°-90°	4028.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4028.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2828	2828	2828	2828	2828	
5°	2807	2793	2652	2548	2519	267
15°	2723	2304	1909	1739	1707	768
25°	2502	1777	1435	1264	1226	1150
35°	2078	1344	1024	895	875	1294
45°	1480	952	729	650	641	1142
55°	917	636	508	461	460	825
65°	502	387	324	299	302	503
75°	220	185	158	148	152	237
85°	38	35	30	27	30	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2828.1	2828.1	2828.1	2828.1	2828.1
2.5°	2813.9	2835.9	2782.8	2768.5	2758.2
5°	2807.4	2793.1	2652.0	2548.4	2518.6
7.5°	2797.0	2718.0	2439.6	2263.5	2236.3
10°	2777.6	2600.2	2226.0	2053.7	2020.1
12.5°	2755.6	2459.1	2057.6	1882.8	1850.4
15°	2723.2	2303.7	1908.7	1739.1	1706.7
17.5°	2684.4	2156.0	1774.0	1607.0	1575.9
20°	2635.2	2021.4	1648.4	1490.5	1459.4
22.5°	2574.3	1894.5	1537.1	1375.2	1341.5
25°	2501.8	1776.6	1434.8	1263.8	1226.3
27.5°	2418.9	1664.0	1329.9	1152.5	1116.2
30°	2319.2	1553.9	1226.3	1054.1	1024.3
32.5°	2206.5	1447.7	1120.1	968.6	944.0
35°	2078.4	1344.1	1024.3	894.8	875.4
37.5°	1938.5	1241.8	941.4	826.2	809.3
40°	1789.6	1142.1	863.7	762.7	749.8
42.5°	1635.5	1046.3	796.4	705.7	694.1
45°	1480.1	951.8	729.0	650.1	641.0
47.5°	1328.6	865.0	669.5	599.5	591.8
50°	1182.3	783.4	612.5	550.3	545.2
52.5°	1045.0	707.0	556.8	505.0	502.4
55°	916.8	635.8	507.6	461.0	459.7
57.5°	799.0	568.5	458.4	418.3	418.3
60°	690.2	505.0	411.8	376.8	379.4
62.5°	593.1	444.2	367.8	338.0	340.6
65°	502.4	387.2	323.7	299.1	301.7
67.5°	420.8	332.8	281.0	260.3	262.9
70°	348.3	281.0	239.6	221.4	225.3
72.5°	281.0	233.1	198.1	183.9	187.8
75°	220.1	185.2	158.0	147.6	151.5
77.5°	165.8	141.1	121.7	112.7	116.5
80°	116.5	101.0	86.8	80.3	84.2
82.5°	72.5	64.7	57.0	51.8	54.4
85°	37.6	35.0	29.8	27.2	29.8
87.5°	12.9	12.9	11.7	10.4	11.7
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	19.28	20.77	19.65	21.08	21.40	16.67	18.16	17.04	18.47	18.78
	3H	20.87	22.20	21.25	22.53	22.89	18.31	19.65	18.69	19.97	20.34
	4H	21.40	22.65	21.80	23.00	23.38	18.89	20.14	19.29	20.49	20.87
	6H	21.74	22.89	22.15	23.26	23.65	19.26	20.42	19.68	20.78	21.17
	8H	21.82	22.92	22.25	23.31	23.71	19.36	20.46	19.79	20.85	21.25
	12H	21.85	22.90	22.28	23.28	23.71	19.40	20.45	19.83	20.84	21.27
4H	2H	19.52	20.77	19.92	21.12	21.50	17.36	18.61	17.76	18.95	19.33
	3H	21.31	22.34	21.72	22.74	23.15	19.17	20.21	19.59	20.61	21.01
	4H	21.95	22.89	22.39	23.30	23.74	19.84	20.77	20.27	21.19	21.63
	6H	22.41	23.22	22.87	23.66	24.12	20.31	21.11	20.76	21.56	22.02
	8H	22.52	23.28	22.99	23.72	24.19	20.43	21.18	20.89	21.63	22.10
	12H	22.58	23.26	23.07	23.74	24.21	20.50	21.17	20.98	21.65	22.12
8H	4H	22.06	22.82	22.53	23.26	23.73	20.14	20.89	20.60	21.34	21.81
	6H	22.59	23.21	23.09	23.71	24.18	20.69	21.31	21.18	21.80	22.28
	8H	22.75	23.31	23.27	23.82	24.31	20.86	21.41	21.37	21.92	22.41
	12H	22.86	23.35	23.37	23.84	24.41	20.97	21.46	21.48	21.95	22.52
12H	4H	22.05	22.73	22.54	23.21	23.68	20.16	20.84	20.64	21.31	21.79
	6H	22.58	23.14	23.10	23.65	24.14	20.73	21.28	21.24	21.80	22.28
	8H	22.78	23.28	23.30	23.77	24.34	20.94	21.43	21.45	21.92	22.49