

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: P1217514

Luminaire Tested: S125DRP-S675D935-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217514
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-S675D935-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

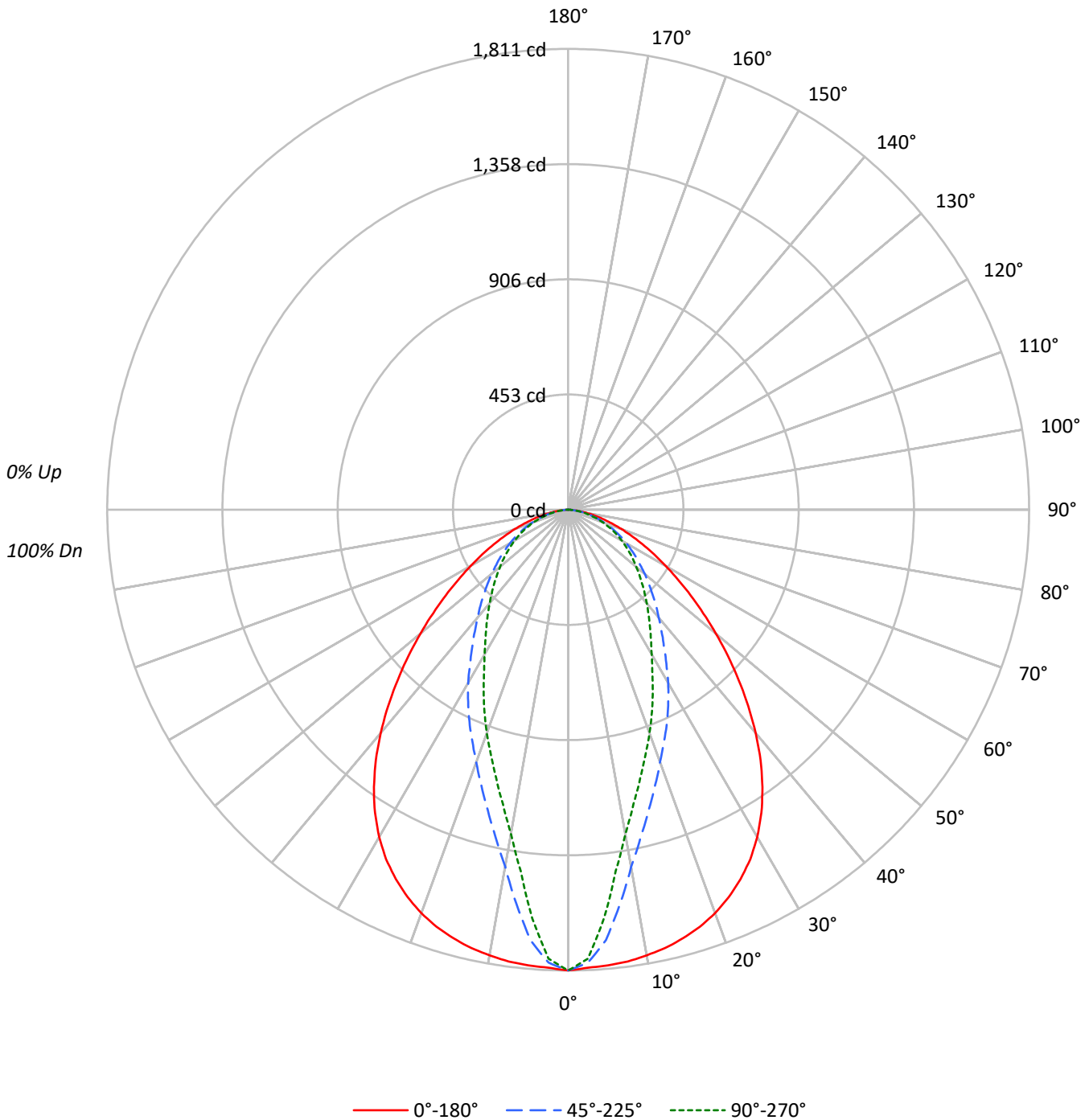
Lumens per Lamp: N/A
Luminaire Lumens: 2578.9 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 26.4
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°	12800	12800	12800
5°	12755	12049	11443
10°	12765	10230	9284
15°	12760	8943	7997
20°	12692	7940	7029
25°	12494	7165	6124
30°	12120	6409	5353
35°	11483	5660	4836
40°	10573	5103	4430
45°	9474	4667	4103
50°	8324	4312	3838
55°	7235	4006	3627
60°	6248	3727	3434
65°	5381	3468	3232
70°	4609	3171	2983
75°	3849	2761	2649
80°	3037	2259	2194
85°	1947	1549	1549

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9474 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.4	6.0
10°-20°	367.0	14.2
20°-30°	466.3	18.1
30°-40°	474.9	18.4
40°-50°	420.1	16.3
50°-60°	329.2	12.8
60°-70°	224.5	8.7
70°-80°	115.6	4.5
80°-90°	25.9	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°	988.7	38.3
0°-40°	1463.6	56.8
0°-60°	2212.9	85.8
0°-90°	2578.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2578.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1811	1811	1811	1811	1811	
5°	1797	1788	1698	1632	1612	171
15°	1744	1475	1222	1113	1093	492
25°	1602	1137	919	809	785	736
35°	1331	860	656	573	560	828
45°	948	609	467	416	410	731
55°	587	407	325	295	294	528
65°	322	248	207	192	193	322
75°	141	119	101	94	97	152
85°	24	22	19	17	19	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1810.6	1810.6	1810.6	1810.6	1810.6
2.5°	1801.5	1815.6	1781.6	1772.5	1765.9
5°	1797.4	1788.2	1697.9	1631.6	1612.5
7.5°	1790.7	1740.2	1561.9	1449.2	1431.8
10°	1778.3	1664.7	1425.1	1314.9	1293.3
12.5°	1764.2	1574.4	1317.3	1205.4	1184.7
15°	1743.5	1474.9	1222.0	1113.4	1092.7
17.5°	1718.6	1380.4	1135.8	1028.8	1008.9
20°	1687.1	1294.1	1055.4	954.2	934.3
22.5°	1648.1	1212.9	984.1	880.4	858.9
25°	1601.7	1137.4	918.6	809.1	785.1
27.5°	1548.7	1065.3	851.4	737.8	714.6
30°	1484.8	994.9	785.1	674.8	655.8
32.5°	1412.7	926.9	717.1	620.1	604.4
35°	1330.6	860.5	655.8	572.9	560.4
37.5°	1241.1	795.1	602.7	528.9	518.2
40°	1145.7	731.2	553.0	488.3	480.0
42.5°	1047.1	669.9	509.9	451.8	444.4
45°	947.6	609.3	466.8	416.2	410.4
47.5°	850.6	553.8	428.6	383.8	378.9
50°	756.9	501.6	392.1	352.3	349.0
52.5°	669.0	452.7	356.5	323.3	321.7
55°	587.0	407.1	325.0	295.1	294.3
57.5°	511.5	363.9	293.5	267.8	267.8
60°	441.9	323.3	263.6	241.3	242.9
62.5°	379.7	284.4	235.4	216.4	218.0
65°	321.7	247.9	207.3	191.5	193.2
67.5°	269.4	213.1	179.9	166.6	168.3
70°	223.0	179.9	153.4	141.8	144.3
72.5°	179.9	149.2	126.8	117.7	120.2
75°	140.9	118.6	101.1	94.5	97.0
77.5°	106.1	90.4	77.9	72.1	74.6
80°	74.6	64.7	55.5	51.4	53.9
82.5°	46.4	41.5	36.5	33.2	34.8
85°	24.0	22.4	19.1	17.4	19.1
87.5°	8.3	8.3	7.5	6.6	7.5
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	17.73	19.22	18.10	19.53	19.85	15.12	16.61	15.49	16.92	17.23
	3H	19.32	20.65	19.70	20.98	21.34	16.76	18.10	17.14	18.42	18.79
	4H	19.85	21.10	20.25	21.45	21.83	17.34	18.59	17.74	18.94	19.32
	6H	20.19	21.34	20.60	21.71	22.10	17.71	18.87	18.13	19.23	19.63
	8H	20.27	21.37	20.70	21.76	22.16	17.81	18.91	18.24	19.30	19.70
	12H	20.30	21.35	20.73	21.73	22.16	17.85	18.90	18.29	19.29	19.72
4H	2H	17.97	19.22	18.37	19.57	19.95	15.81	17.06	16.21	17.41	17.78
	3H	19.76	20.79	20.17	21.19	21.60	17.63	18.66	18.04	19.06	19.46
	4H	20.40	21.34	20.84	21.75	22.19	18.29	19.22	18.72	19.64	20.08
	6H	20.86	21.67	21.32	22.11	22.57	18.76	19.57	19.21	20.01	20.47
	8H	20.97	21.73	21.44	22.17	22.64	18.88	19.64	19.34	20.08	20.55
	12H	21.03	21.71	21.52	22.19	22.66	18.95	19.62	19.43	20.10	20.57
8H	4H	20.51	21.27	20.98	21.71	22.18	18.59	19.34	19.05	19.79	20.26
	6H	21.04	21.66	21.54	22.16	22.63	19.14	19.76	19.64	20.25	20.73
	8H	21.20	21.76	21.72	22.27	22.76	19.31	19.86	19.82	20.37	20.86
	12H	21.31	21.80	21.82	22.29	22.86	19.42	19.91	19.93	20.40	20.97
12H	4H	20.50	21.18	20.99	21.66	22.13	18.61	19.29	19.09	19.77	20.24
	6H	21.04	21.59	21.55	22.10	22.59	19.18	19.74	19.69	20.25	20.73
	8H	21.24	21.73	21.75	22.22	22.79	19.39	19.88	19.90	20.37	20.94