

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: P1217515

Luminaire Tested: S125DRP-S675D940-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217515
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-S675D940-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

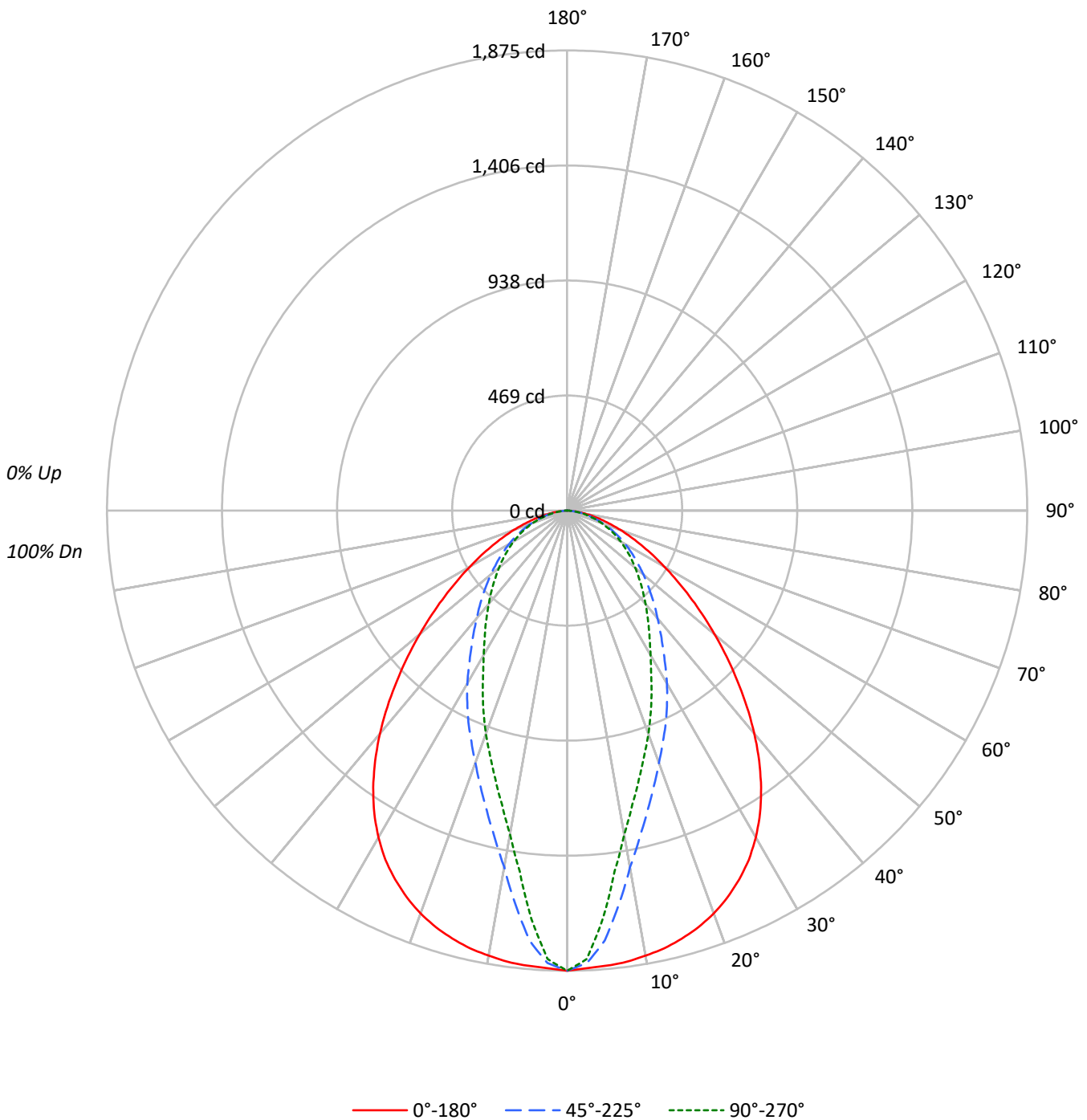
Lumens per Lamp: N/A
Luminaire Lumens: 2670.9 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1217515

CATALOG NUMBER: S125DRP-S675D940-X4F0-XX-UDD-G-W

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	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°	13256	13256	13256
5°	13210	12478	11851
10°	13220	10595	9615
15°	13215	9263	8283
20°	13145	8223	7280
25°	12939	7420	6342
30°	12553	6637	5544
35°	11893	5862	5009
40°	10950	5285	4587
45°	9812	4833	4249
50°	8621	4466	3976
55°	7492	4149	3757
60°	6470	3860	3557
65°	5572	3591	3347
70°	4775	3282	3088
75°	3988	2862	2745
80°	3147	2341	2272
85°	2020	1598	1598

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9812 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.9	6.0
10°-20°	380.1	14.2
20°-30°	482.9	18.1
30°-40°	491.8	18.4
40°-50°	435.1	16.3
50°-60°	341.0	12.8
60°-70°	232.5	8.7
70°-80°	119.8	4.5
80°-90°	26.8	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°	1024.0	38.3
0°-40°	1515.8	56.8
0°-60°	2291.8	85.8
0°-90°	2670.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2670.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1875	1875	1875	1875	1875	
5°	1862	1852	1758	1690	1670	177
15°	1806	1528	1266	1153	1132	509
25°	1659	1178	951	838	813	762
35°	1378	891	679	593	580	858
45°	981	631	483	431	425	757
55°	608	422	337	306	305	547
65°	333	257	215	198	200	333
75°	146	123	105	98	100	157
85°	25	23	20	18	20	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1875.2	1875.2	1875.2	1875.2	1875.2
2.5°	1865.8	1880.4	1845.2	1835.7	1828.9
5°	1861.5	1852.0	1758.4	1689.8	1670.0
7.5°	1854.6	1802.2	1617.6	1500.9	1482.8
10°	1841.7	1724.1	1476.0	1361.8	1339.4
12.5°	1827.1	1630.5	1364.3	1248.4	1227.0
15°	1805.7	1527.5	1265.6	1153.1	1131.7
17.5°	1779.9	1429.6	1176.3	1065.5	1044.9
20°	1747.3	1340.3	1093.0	988.3	967.7
22.5°	1706.9	1256.2	1019.2	911.8	889.5
25°	1658.8	1178.0	951.3	838.0	813.1
27.5°	1603.9	1103.3	881.8	764.2	740.1
30°	1537.8	1030.3	813.1	698.9	679.2
32.5°	1463.1	959.9	742.7	642.2	625.9
35°	1378.1	891.2	679.2	593.3	580.4
37.5°	1285.3	823.4	624.2	547.8	536.6
40°	1186.6	757.3	572.7	505.7	497.1
42.5°	1084.4	693.8	528.0	467.9	460.2
45°	981.4	631.1	483.4	431.0	425.0
47.5°	880.9	573.6	443.9	397.5	392.4
50°	783.9	519.5	406.1	364.9	361.5
52.5°	692.9	468.8	369.2	334.9	333.1
55°	607.9	421.6	336.6	305.7	304.8
57.5°	529.8	376.9	303.9	277.3	277.3
60°	457.6	334.9	273.0	249.9	251.6
62.5°	393.2	294.5	243.8	224.1	225.8
65°	333.1	256.7	214.7	198.3	200.1
67.5°	279.0	220.7	186.3	172.6	174.3
70°	231.0	186.3	158.8	146.8	149.4
72.5°	186.3	154.6	131.4	121.9	124.5
75°	146.0	122.8	104.8	97.9	100.5
77.5°	109.9	93.6	80.7	74.7	77.3
80°	77.3	67.0	57.5	53.2	55.8
82.5°	48.1	42.9	37.8	34.3	36.1
85°	24.9	23.2	19.7	18.0	19.7
87.5°	8.6	8.6	7.7	6.9	7.7
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	17.86	19.34	18.22	19.65	19.97	15.24	16.73	15.61	17.04	17.36
	3H	19.44	20.77	19.82	21.10	21.47	16.88	18.22	17.26	18.55	18.91
	4H	19.98	21.23	20.38	21.57	21.95	17.46	18.71	17.86	19.06	19.44
	6H	20.31	21.47	20.73	21.83	22.23	17.83	18.99	18.25	19.35	19.75
	8H	20.39	21.49	20.82	21.88	22.28	17.93	19.03	18.36	19.42	19.82
	12H	20.42	21.47	20.86	21.86	22.29	17.98	19.03	18.41	19.41	19.84
4H	2H	18.10	19.35	18.50	19.69	20.07	15.93	17.18	16.33	17.53	17.91
	3H	19.88	20.92	20.29	21.32	21.72	17.75	18.78	18.16	19.18	19.58
	4H	20.53	21.46	20.96	21.88	22.31	18.41	19.34	18.84	19.76	20.20
	6H	20.98	21.79	21.44	22.23	22.69	18.88	19.69	19.34	20.13	20.59
	8H	21.09	21.85	21.56	22.30	22.76	19.00	19.76	19.47	20.20	20.67
	12H	21.16	21.83	21.64	22.31	22.78	19.07	19.74	19.55	20.22	20.70
8H	4H	20.63	21.39	21.10	21.84	22.30	18.71	19.47	19.17	19.91	20.38
	6H	21.16	21.79	21.66	22.28	22.76	19.26	19.88	19.76	20.37	20.85
	8H	21.32	21.88	21.84	22.39	22.88	19.43	19.99	19.94	20.50	20.99
	12H	21.43	21.92	21.94	22.42	22.98	19.54	20.03	20.05	20.52	21.09
12H	4H	20.63	21.30	21.11	21.78	22.25	18.73	19.41	19.22	19.89	20.36
	6H	21.16	21.72	21.67	22.23	22.72	19.30	19.86	19.81	20.37	20.86
	8H	21.36	21.85	21.87	22.34	22.91	19.51	20.00	20.02	20.50	21.06