

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: P1217512

Luminaire Tested: S125DRP-S675D927-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217512
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-S675D927-X4F0-XX-UDD-G-W
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

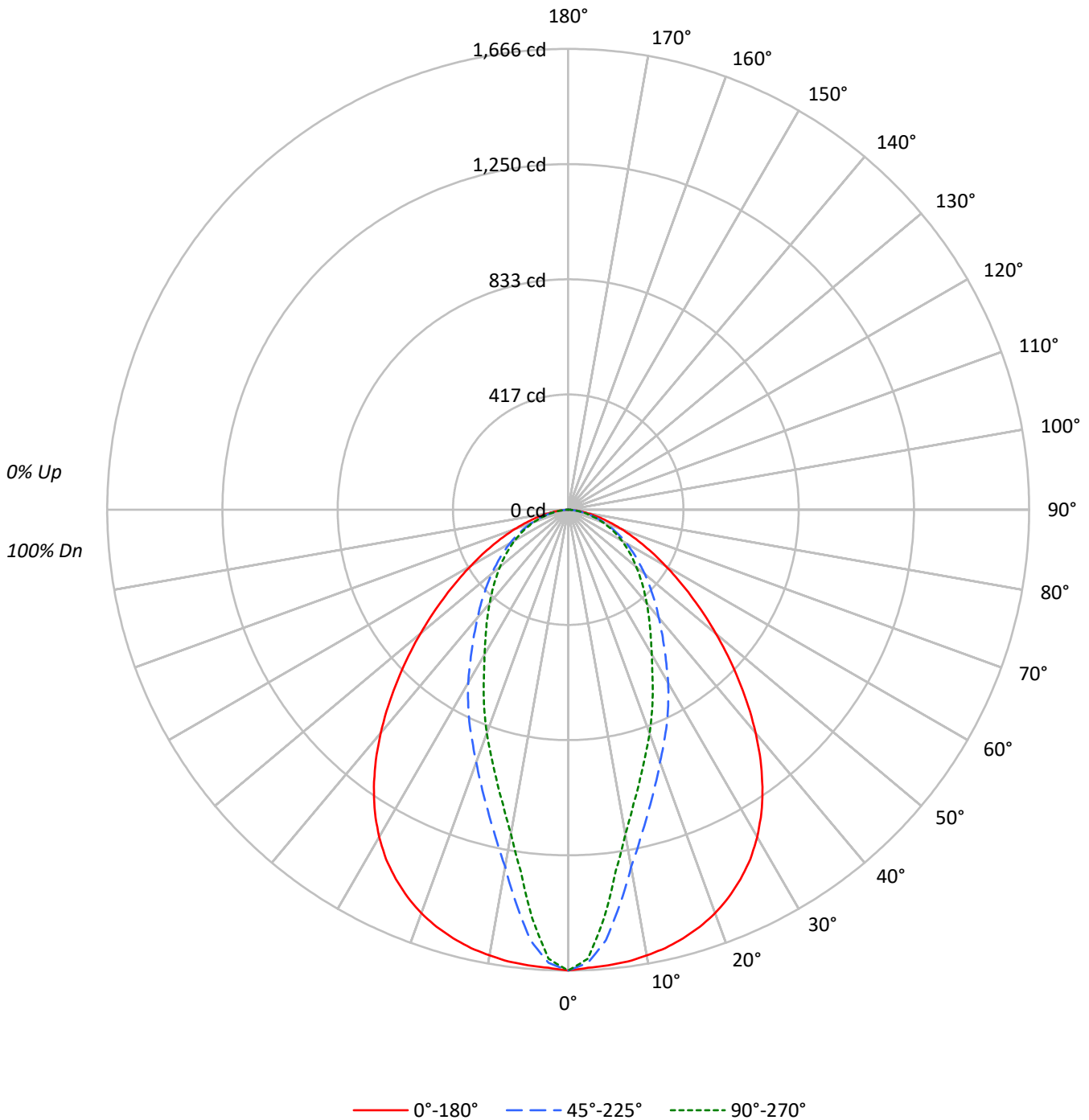
Lumens per Lamp: N/A
Luminaire Lumens: 2372.8 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 26.4
Input Voltage (V): 120
Input Current (A_{in}): 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°	11777	11777	11777
5°	11735	11086	10528
10°	11745	9412	8542
15°	11740	8228	7358
20°	11678	7305	6468
25°	11495	6593	5635
30°	11151	5897	4926
35°	10566	5207	4450
40°	9729	4695	4075
45°	8717	4293	3775
50°	7659	3968	3531
55°	6656	3685	3338
60°	5749	3430	3160
65°	4951	3190	2972
70°	4241	2916	2743
75°	3543	2543	2436
80°	2797	2080	2019
85°	1793	1419	1419

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8717 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.0	6.0
10°-20°	337.7	14.2
20°-30°	429.0	18.1
30°-40°	437.0	18.4
40°-50°	386.5	16.3
50°-60°	302.9	12.8
60°-70°	206.6	8.7
70°-80°	106.4	4.5
80°-90°	23.8	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°	909.7	38.3
0°-40°	1346.6	56.8
0°-60°	2036.0	85.8
0°-90°	2372.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2372.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1666	1666	1666	1666	1666	
5°	1654	1645	1562	1501	1484	157
15°	1604	1357	1124	1024	1005	453
25°	1474	1046	845	744	722	677
35°	1224	792	603	527	516	762
45°	872	561	429	383	378	673
55°	540	374	299	272	271	486
65°	296	228	191	176	178	296
75°	130	109	93	87	89	140
85°	22	21	18	16	18	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1665.9	1665.9	1665.9	1665.9	1665.9
2.5°	1657.5	1670.5	1639.2	1630.8	1624.7
5°	1653.7	1645.3	1562.2	1501.2	1483.6
7.5°	1647.6	1601.1	1437.1	1333.3	1317.3
10°	1636.2	1531.7	1311.2	1209.8	1189.9
12.5°	1623.2	1448.5	1212.1	1109.1	1090.0
15°	1604.1	1357.0	1124.3	1024.4	1005.3
17.5°	1581.2	1270.0	1045.0	946.6	928.3
20°	1552.3	1190.7	971.0	878.0	859.7
22.5°	1516.4	1115.9	905.4	810.1	790.2
25°	1473.7	1046.5	845.2	744.5	722.4
27.5°	1424.9	980.2	783.4	678.9	657.5
30°	1366.1	915.3	722.4	620.9	603.4
32.5°	1299.8	852.8	659.8	570.6	556.1
35°	1224.3	791.8	603.4	527.1	515.6
37.5°	1141.9	731.5	554.5	486.7	476.7
40°	1054.2	672.8	508.8	449.3	441.6
42.5°	963.4	616.3	469.1	415.7	408.8
45°	871.9	560.6	429.4	382.9	377.6
47.5°	782.6	509.5	394.4	353.2	348.6
50°	696.4	461.5	360.8	324.2	321.1
52.5°	615.6	416.5	328.0	297.5	296.0
55°	540.0	374.5	299.0	271.5	270.8
57.5°	470.6	334.9	270.0	246.4	246.4
60°	406.6	297.5	242.6	222.0	223.5
62.5°	349.4	261.6	216.6	199.1	200.6
65°	296.0	228.1	190.7	176.2	177.7
67.5°	247.9	196.0	165.5	153.3	154.8
70°	205.2	165.5	141.1	130.4	132.7
72.5°	165.5	137.3	116.7	108.3	110.6
75°	129.7	109.1	93.1	87.0	89.2
77.5°	97.6	83.1	71.7	66.4	68.7
80°	68.7	59.5	51.1	47.3	49.6
82.5°	42.7	38.1	33.6	30.5	32.0
85°	22.1	20.6	17.5	16.0	17.5
87.5°	7.6	7.6	6.9	6.1	6.9
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	17.44	18.93	17.81	19.24	19.56	14.83	16.32	15.20	16.63	16.95
	3H	19.03	20.36	19.41	20.69	21.05	16.47	17.81	16.85	18.13	18.50
	4H	19.57	20.81	19.97	21.16	21.54	17.05	18.30	17.45	18.65	19.03
	6H	19.90	21.06	20.31	21.42	21.81	17.42	18.58	17.84	18.94	19.34
	8H	19.98	21.08	20.41	21.47	21.87	17.52	18.62	17.95	19.01	19.41
	12H	20.01	21.06	20.44	21.45	21.87	17.56	18.61	18.00	19.00	19.43
4H	2H	17.69	18.94	18.09	19.28	19.66	15.52	16.77	15.92	17.12	17.49
	3H	19.47	20.51	19.88	20.91	21.31	17.34	18.37	17.75	18.77	19.17
	4H	20.12	21.05	20.55	21.46	21.90	18.00	18.93	18.43	19.35	19.79
	6H	20.57	21.38	21.03	21.82	22.28	18.47	19.28	18.92	19.72	20.18
	8H	20.68	21.44	21.15	21.88	22.35	18.59	19.35	19.05	19.79	20.26
	12H	20.74	21.42	21.23	21.90	22.37	18.66	19.33	19.14	19.81	20.28
8H	4H	20.22	20.98	20.69	21.42	21.89	18.30	19.05	18.76	19.50	19.97
	6H	20.75	21.37	21.25	21.87	22.34	18.85	19.47	19.35	19.96	20.44
	8H	20.91	21.47	21.43	21.98	22.47	19.02	19.57	19.53	20.09	20.57
	12H	21.02	21.51	21.53	22.00	22.57	19.13	19.62	19.64	20.11	20.68
12H	4H	20.21	20.89	20.70	21.37	21.84	18.32	19.00	18.81	19.48	19.95
	6H	20.75	21.31	21.26	21.82	22.30	18.89	19.45	19.40	19.96	20.45
	8H	20.95	21.44	21.46	21.93	22.50	19.10	19.59	19.61	20.09	20.65