

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: P1217510

Luminaire Tested: S125DRP-S675D840-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217510
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-S675D840-X4F0-XX-UDD-G-W
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC
CORE LIGHT ENGINE
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

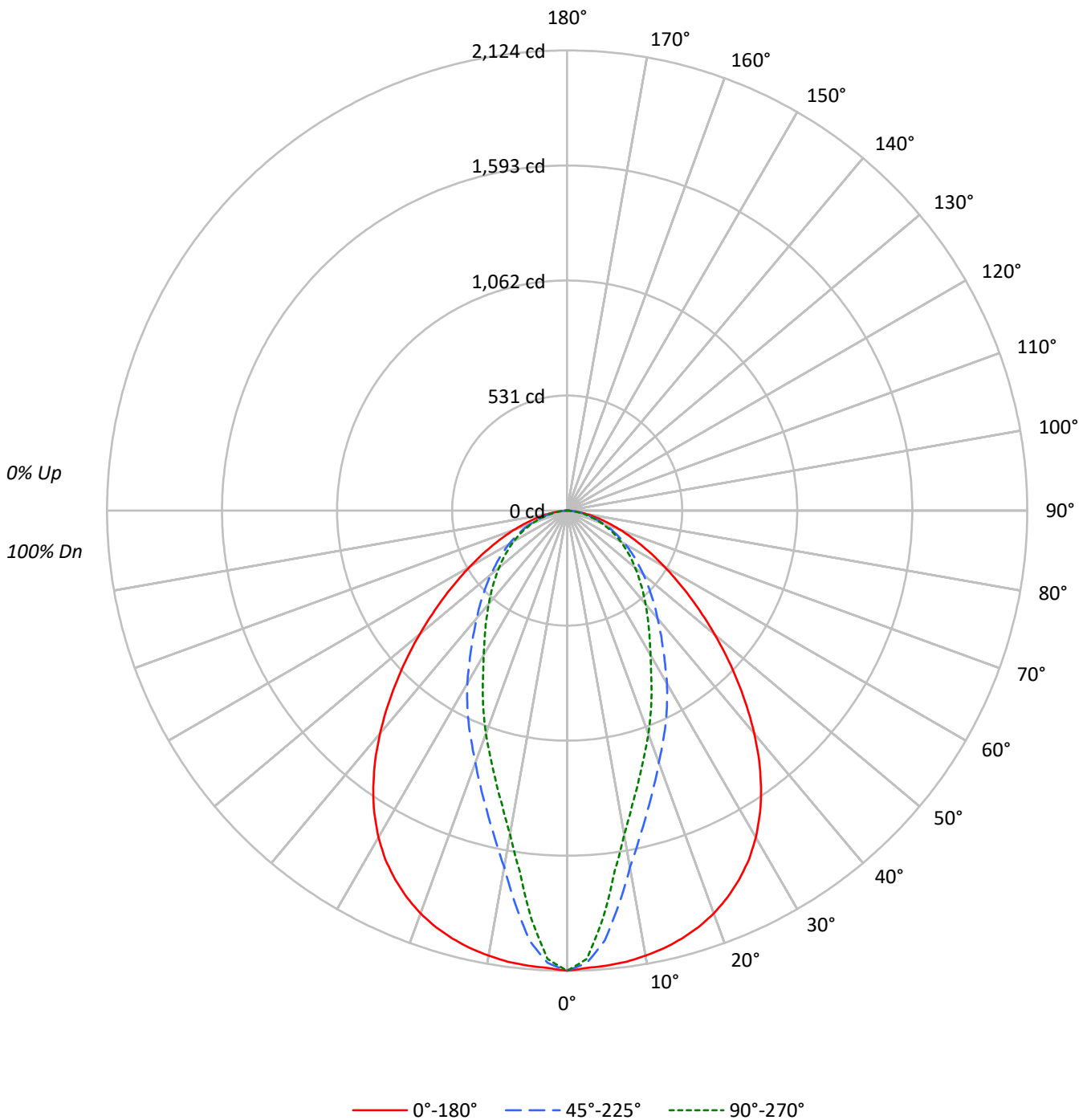
Lumens per Lamp: N/A
Luminaire Lumens: 3024.8 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

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	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				
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°	15013	15013	15013
5°	14960	14132	13421
10°	14973	11999	10889
15°	14966	10490	9380
20°	14887	9312	8244
25°	14653	8404	7182
30°	14216	7516	6279
35°	13469	6638	5673
40°	12401	5986	5196
45°	11111	5474	4812
50°	9764	5058	4503
55°	8485	4698	4255
60°	7328	4372	4028
65°	6311	4066	3790
70°	5407	3718	3497
75°	4515	3239	3108
80°	3562	2650	2573
85°	2287	1817	1817

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11111 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.3	6.0
10°-20°	430.5	14.2
20°-30°	546.9	18.1
30°-40°	557.0	18.4
40°-50°	492.7	16.3
50°-60°	386.1	12.8
60°-70°	263.3	8.7
70°-80°	135.6	4.5
80°-90°	30.3	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°	1159.6	38.3
0°-40°	1716.7	56.8
0°-60°	2595.5	85.8
0°-90°	3024.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3024.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2124	2124	2124	2124	2124	
5°	2108	2097	1991	1914	1891	201
15°	2045	1730	1433	1306	1282	577
25°	1879	1334	1077	949	921	863
35°	1561	1009	769	672	657	971
45°	1111	715	548	488	481	857
55°	688	477	381	346	345	619
65°	377	291	243	225	227	378
75°	165	139	119	111	114	178
85°	28	26	22	20	22	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2123.7	2123.7	2123.7	2123.7	2123.7
2.5°	2113.0	2129.5	2089.7	2079.0	2071.2
5°	2108.1	2097.4	1991.4	1913.7	1891.3
7.5°	2100.4	2041.0	1832.0	1699.7	1679.3
10°	2085.8	1952.5	1671.5	1542.2	1516.9
12.5°	2069.2	1846.6	1545.1	1413.8	1389.5
15°	2044.9	1729.9	1433.3	1305.9	1281.6
17.5°	2015.8	1619.0	1332.2	1206.7	1183.4
20°	1978.8	1517.9	1237.8	1119.2	1095.9
22.5°	1933.1	1422.6	1154.2	1032.7	1007.4
25°	1878.6	1334.1	1077.4	949.0	920.8
27.5°	1816.4	1249.5	998.6	865.4	838.2
30°	1741.5	1166.9	920.8	791.5	769.2
32.5°	1656.9	1087.1	841.1	727.3	708.9
35°	1560.7	1009.3	769.2	671.9	657.3
37.5°	1455.7	932.5	706.9	620.4	607.7
40°	1343.8	857.6	648.6	572.7	563.0
42.5°	1228.1	785.7	598.0	529.9	521.2
45°	1111.4	714.7	547.5	488.1	481.3
47.5°	997.7	649.6	502.7	450.2	444.4
50°	887.8	588.3	459.9	413.3	409.4
52.5°	784.7	530.9	418.1	379.2	377.3
55°	688.4	477.4	381.2	346.2	345.2
57.5°	600.0	426.9	344.2	314.1	314.1
60°	518.3	379.2	309.2	283.0	284.9
62.5°	445.4	333.5	276.2	253.8	255.7
65°	377.3	290.7	243.1	224.6	226.6
67.5°	316.0	249.9	211.0	195.4	197.4
70°	261.6	211.0	179.9	166.3	169.2
72.5°	211.0	175.0	148.8	138.1	141.0
75°	165.3	139.1	118.6	110.9	113.8
77.5°	124.5	106.0	91.4	84.6	87.5
80°	87.5	75.8	65.1	60.3	63.2
82.5°	54.5	48.6	42.8	38.9	40.8
85°	28.2	26.3	22.4	20.4	22.4
87.5°	9.7	9.7	8.8	7.8	8.8
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	18.29	19.77	18.65	20.09	20.40	15.67	17.16	16.04	17.47	17.79
	3H	19.88	21.21	20.25	21.54	21.90	17.32	18.65	17.70	18.98	19.34
	4H	20.41	21.66	20.81	22.01	22.39	17.89	19.14	18.29	19.49	19.87
	6H	20.75	21.90	21.16	22.27	22.66	18.27	19.42	18.68	19.79	20.18
	8H	20.83	21.92	21.25	22.31	22.71	18.36	19.46	18.79	19.85	20.25
	12H	20.86	21.91	21.29	22.29	22.72	18.41	19.46	18.84	19.84	20.27
4H	2H	18.53	19.78	18.93	20.13	20.51	16.36	17.61	16.76	17.96	18.34
	3H	20.31	21.35	20.72	21.75	22.15	18.18	19.22	18.59	19.62	20.02
	4H	20.96	21.89	21.39	22.31	22.75	18.84	19.78	19.28	20.19	20.63
	6H	21.41	22.22	21.87	22.67	23.13	19.31	20.12	19.77	20.56	21.02
	8H	21.53	22.28	21.99	22.73	23.20	19.43	20.19	19.90	20.63	21.10
	12H	21.59	22.26	22.07	22.74	23.21	19.50	20.18	19.99	20.66	21.13
8H	4H	21.07	21.82	21.53	22.27	22.74	19.14	19.90	19.61	20.34	20.81
	6H	21.60	22.22	22.09	22.71	23.19	19.69	20.31	20.19	20.81	21.28
	8H	21.76	22.31	22.27	22.83	23.31	19.86	20.42	20.38	20.93	21.42
	12H	21.86	22.36	22.37	22.85	23.41	19.97	20.47	20.48	20.96	21.52
12H	4H	21.06	21.73	21.54	22.21	22.68	19.17	19.84	19.65	20.32	20.79
	6H	21.59	22.15	22.10	22.66	23.15	19.73	20.29	20.25	20.80	21.29
	8H	21.79	22.28	22.30	22.77	23.34	19.94	20.44	20.45	20.93	21.49