

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: P1217471

Luminaire Tested: S125DRP-H675D950-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1217471  
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-H675D950-X4F0-XX-UDD-G-W  
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: -

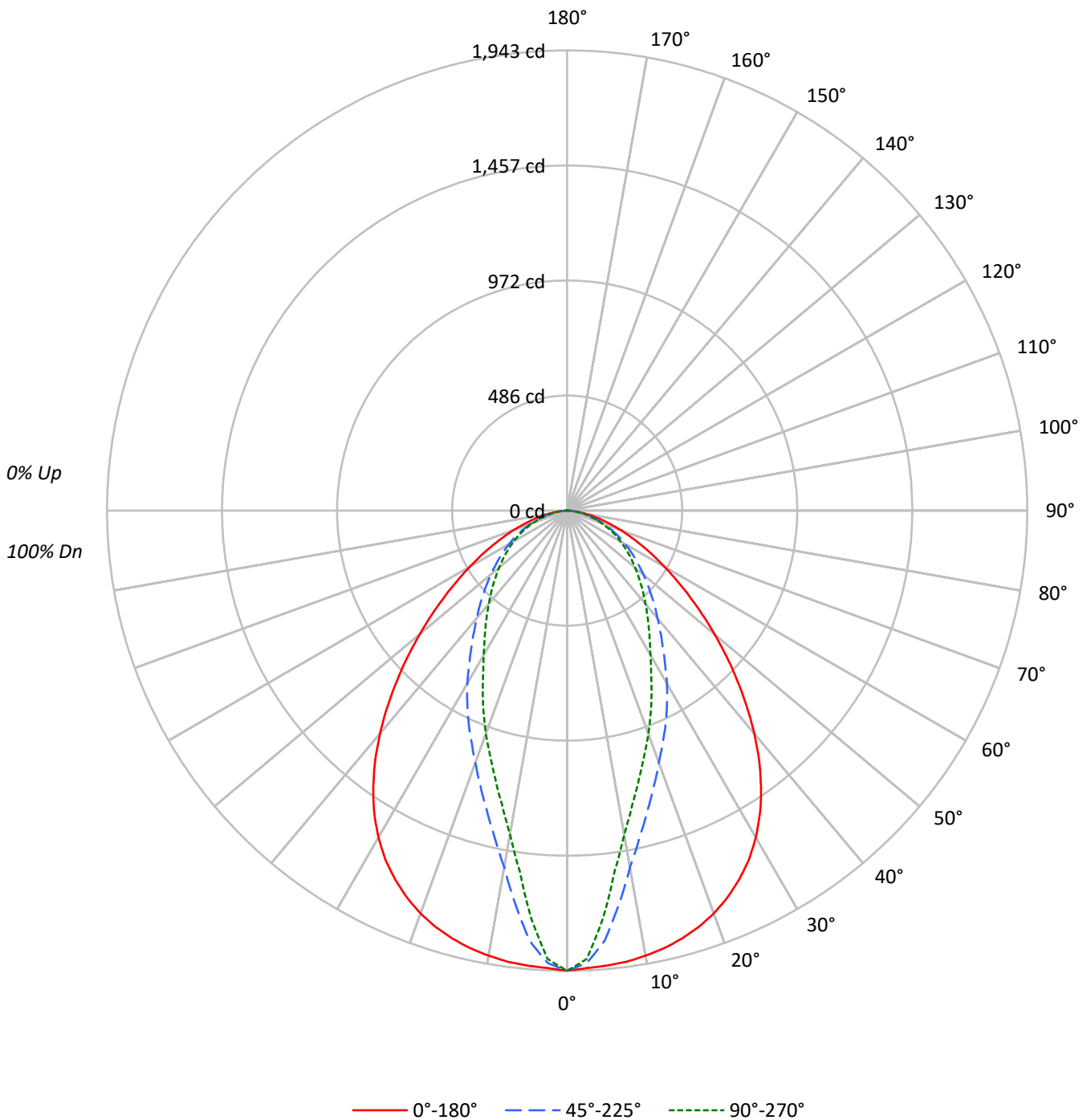
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2767.1 lumens  
Efficiency: N/A  
Efficacy: 116.3 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): 23.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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: P1217471

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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°	13734	13734	13734
5°	13685	12928	12278
10°	13697	10976	9961
15°	13691	9596	8580
20°	13618	8519	7542
25°	13405	7688	6571
30°	13005	6876	5743
35°	12321	6072	5189
40°	11344	5475	4753
45°	10165	5007	4402
50°	8931	4628	4119
55°	7762	4298	3892
60°	6703	4000	3685
65°	5773	3720	3468
70°	4946	3402	3200
75°	4130	2964	2843
80°	3261	2426	2353
85°	2093	1663	1663

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 10165 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.7	6.0
10°-20°	393.8	14.2
20°-30°	500.3	18.1
30°-40°	509.6	18.4
40°-50°	450.7	16.3
50°-60°	353.2	12.8
60°-70°	240.9	8.7
70°-80°	124.1	4.5
80°-90°	27.7	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°	1060.9	38.3
0°-40°	1570.4	56.8
0°-60°	2374.4	85.8
0°-90°	2767.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2767.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1943	1943	1943	1943	1943	
5°	1928	1919	1822	1751	1730	184
15°	1871	1582	1311	1195	1172	528
25°	1719	1220	986	868	842	790
35°	1428	923	704	615	601	889
45°	1017	654	501	446	440	784
55°	630	437	349	317	316	567
65°	345	266	222	206	207	346
75°	151	127	108	101	104	163
85°	26	24	20	19	20	34
90°	0	0	0	0	0	

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CATALOG NUMBER: S125DRP-H675D950-X4F0-XX-UDD-G-W

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1942.8	1942.8	1942.8	1942.8	1942.8
2.5°	1933.0	1948.1	1911.6	1901.8	1894.7
5°	1928.5	1918.7	1821.8	1750.6	1730.2
7.5°	1921.4	1867.1	1675.9	1554.9	1536.2
10°	1908.1	1786.2	1529.1	1410.8	1387.7
12.5°	1892.9	1689.2	1413.5	1293.4	1271.1
15°	1870.7	1582.5	1311.2	1194.6	1172.4
17.5°	1844.0	1481.1	1218.7	1103.9	1082.6
20°	1810.2	1388.6	1132.4	1023.9	1002.5
22.5°	1768.4	1301.4	1055.9	944.7	921.6
25°	1718.6	1220.4	985.6	868.2	842.4
27.5°	1661.7	1143.1	913.6	791.7	766.8
30°	1593.2	1067.4	842.4	724.1	703.6
32.5°	1515.8	994.5	769.5	665.4	648.5
35°	1427.7	923.3	703.6	614.7	601.3
37.5°	1331.6	853.1	646.7	567.5	556.0
40°	1229.3	784.6	593.3	523.9	515.0
42.5°	1123.5	718.7	547.1	484.8	476.8
45°	1016.7	653.8	500.8	446.5	440.3
47.5°	912.7	594.2	459.9	411.9	406.5
50°	812.1	538.2	420.8	378.1	374.5
52.5°	717.9	485.7	382.5	346.9	345.1
55°	629.8	436.8	348.7	316.7	315.8
57.5°	548.8	390.5	314.9	287.3	287.3
60°	474.1	346.9	282.9	258.9	260.6
62.5°	407.4	305.1	252.6	232.2	233.9
65°	345.1	266.0	222.4	205.5	207.3
67.5°	289.1	228.6	193.0	178.8	180.6
70°	239.3	193.0	164.6	152.1	154.8
72.5°	193.0	160.1	136.1	126.3	129.0
75°	151.2	127.2	108.5	101.4	104.1
77.5°	113.9	97.0	83.6	77.4	80.1
80°	80.1	69.4	59.6	55.2	57.8
82.5°	49.8	44.5	39.1	35.6	37.4
85°	25.8	24.0	20.5	18.7	20.5
87.5°	8.9	8.9	8.0	7.1	8.0
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	17.98	19.46	18.34	19.78	20.09	15.36	16.85	15.73	17.16	17.48
	3H	19.57	20.90	19.94	21.23	21.59	17.01	18.34	17.39	18.67	19.03
	4H	20.10	21.35	20.50	21.70	22.08	17.58	18.83	17.98	19.18	19.56
	6H	20.44	21.59	20.85	21.96	22.35	17.96	19.11	18.37	19.48	19.87
	8H	20.52	21.61	20.94	22.00	22.40	18.05	19.15	18.48	19.54	19.94
	12H	20.55	21.60	20.98	21.98	22.41	18.10	19.15	18.53	19.53	19.96
4H	2H	18.22	19.47	18.62	19.82	20.20	16.05	17.30	16.45	17.65	18.03
	3H	20.00	21.04	20.41	21.44	21.84	17.87	18.91	18.28	19.31	19.71
	4H	20.65	21.58	21.08	22.00	22.44	18.53	19.47	18.97	19.88	20.32
	6H	21.10	21.91	21.56	22.36	22.82	19.00	19.81	19.46	20.25	20.71
	8H	21.22	21.97	21.68	22.42	22.89	19.12	19.88	19.59	20.32	20.79
	12H	21.28	21.95	21.76	22.43	22.90	19.19	19.87	19.68	20.35	20.82
8H	4H	20.76	21.51	21.22	21.96	22.43	18.83	19.59	19.30	20.03	20.50
	6H	21.29	21.91	21.78	22.40	22.88	19.38	20.01	19.88	20.50	20.98
	8H	21.45	22.01	21.96	22.52	23.00	19.55	20.11	20.07	20.62	21.11
	12H	21.55	22.05	22.06	22.54	23.10	19.66	20.16	20.18	20.65	21.22
12H	4H	20.75	21.42	21.23	21.90	22.37	18.86	19.53	19.34	20.01	20.48
	6H	21.28	21.84	21.80	22.35	22.84	19.42	19.98	19.94	20.49	20.98
	8H	21.48	21.97	21.99	22.47	23.03	19.63	20.13	20.15	20.62	21.19