

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: P1217456

Luminaire Tested: S125DRP-H485D840-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1217456  
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-H485D840-X4F0-XX-UDD-G-W  
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

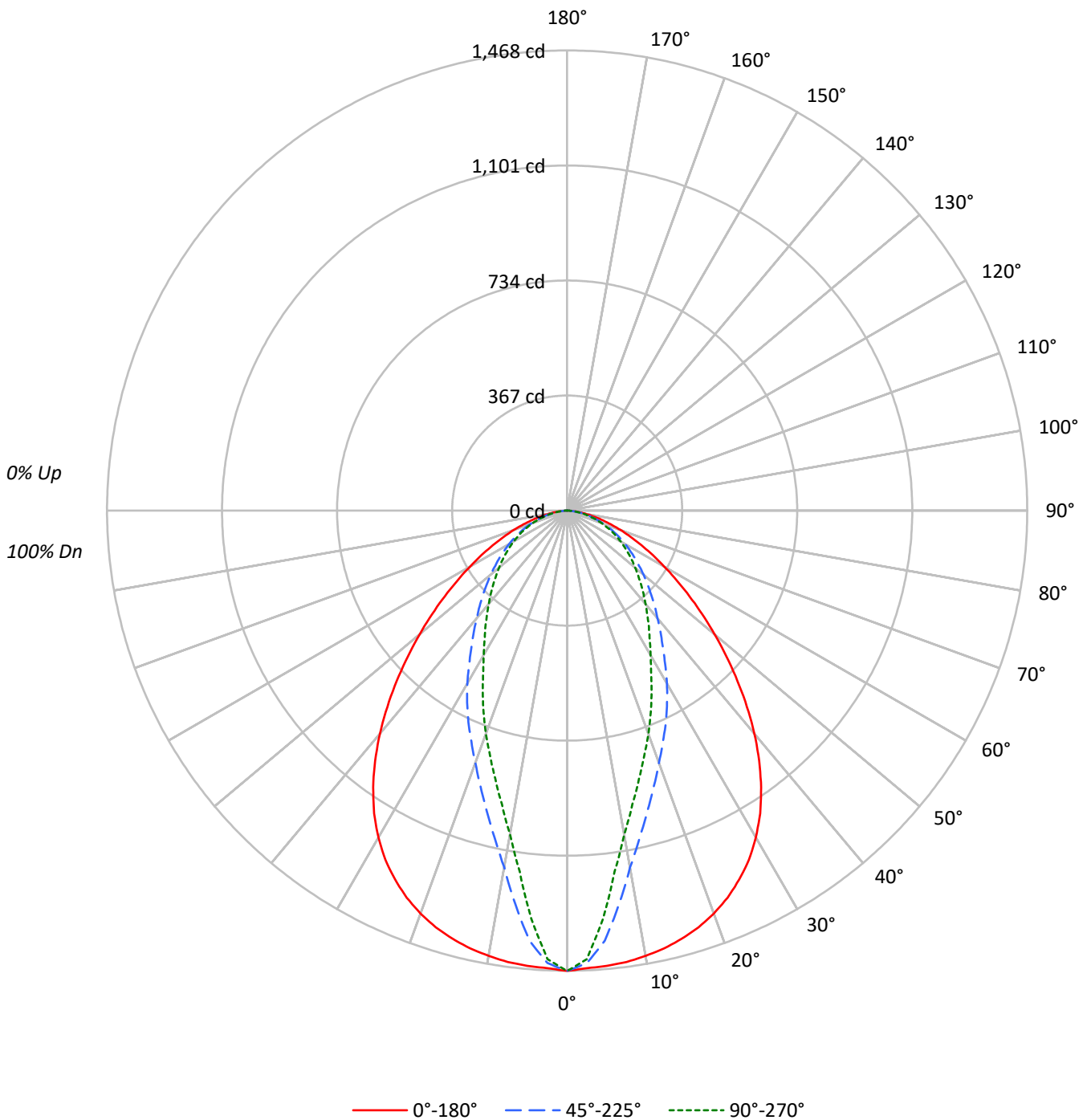
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2091.5 lumens  
Efficiency: N/A  
Efficacy: 120.9 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): 17.3  
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	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°	10381	10381	10381
5°	10344	9772	9280
10°	10353	8297	7529
15°	10349	7254	6486
20°	10293	6439	5700
25°	10132	5811	4966
30°	9830	5197	4341
35°	9313	4589	3922
40°	8575	4139	3593
45°	7683	3784	3327
50°	6752	3497	3114
55°	5867	3249	2942
60°	5067	3023	2785
65°	4364	2812	2621
70°	3739	2571	2418
75°	3122	2240	2150
80°	2463	1832	1779
85°	1582	1257	1257

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 7683 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.0	6.0
10°-20°	297.7	14.2
20°-30°	378.2	18.1
30°-40°	385.2	18.4
40°-50°	340.7	16.3
50°-60°	267.0	12.8
60°-70°	182.1	8.7
70°-80°	93.8	4.5
80°-90°	21.0	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°	801.8	38.3
0°-40°	1187.0	56.8
0°-60°	1794.7	85.8
0°-90°	2091.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2091.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1468	1468	1468	1468	1468	
5°	1458	1450	1377	1323	1308	139
15°	1414	1196	991	903	886	399
25°	1299	922	745	656	637	597
35°	1079	698	532	465	454	672
45°	768	494	378	338	333	593
55°	476	330	264	239	239	428
65°	261	201	168	155	157	261
75°	114	96	82	77	79	123
85°	20	18	16	14	16	26
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1468.4	1468.4	1468.4	1468.4	1468.4
2.5°	1461.0	1472.5	1444.9	1437.5	1432.1
5°	1457.7	1450.3	1377.0	1323.2	1307.7
7.5°	1452.3	1411.3	1266.7	1175.3	1161.2
10°	1442.2	1350.1	1155.8	1066.4	1048.9
12.5°	1430.8	1276.8	1068.4	977.6	960.8
15°	1414.0	1196.1	991.1	903.0	886.2
17.5°	1393.8	1119.5	921.1	834.4	818.3
20°	1368.2	1049.5	855.9	773.9	757.7
22.5°	1336.6	983.7	798.1	714.0	696.6
25°	1299.0	922.5	745.0	656.2	636.7
27.5°	1256.0	864.0	690.5	598.4	579.6
30°	1204.2	806.8	636.7	547.3	531.8
32.5°	1145.7	751.7	581.6	502.9	490.1
35°	1079.1	697.9	531.8	464.6	454.5
37.5°	1006.5	644.8	488.8	429.0	420.2
40°	929.2	593.0	448.5	396.0	389.3
42.5°	849.2	543.3	413.5	366.4	360.4
45°	768.5	494.2	378.5	337.5	332.8
47.5°	689.8	449.1	347.6	311.3	307.3
50°	613.9	406.8	318.0	285.8	283.1
52.5°	542.6	367.1	289.1	262.2	260.9
55°	476.0	330.1	263.6	239.4	238.7
57.5°	414.8	295.2	238.0	217.2	217.2
60°	358.4	262.2	213.8	195.7	197.0
62.5°	307.9	230.6	190.9	175.5	176.8
65°	260.9	201.0	168.1	155.3	156.7
67.5°	218.5	172.8	145.9	135.1	136.5
70°	180.9	145.9	124.4	115.0	117.0
72.5°	145.9	121.0	102.9	95.5	97.5
75°	114.3	96.1	82.0	76.6	78.7
77.5°	86.1	73.3	63.2	58.5	60.5
80°	60.5	52.4	45.0	41.7	43.7
82.5°	37.7	33.6	29.6	26.9	28.2
85°	19.5	18.2	15.5	14.1	15.5
87.5°	6.7	6.7	6.1	5.4	6.1
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	17.01	18.49	17.37	18.81	19.12	14.39	15.88	14.76	16.19	16.51
	3H	18.59	19.93	18.97	20.25	20.62	16.04	17.37	16.41	17.70	18.06
	4H	19.13	20.38	19.53	20.73	21.10	16.61	17.86	17.01	18.21	18.59
	6H	19.46	20.62	19.88	20.98	21.38	16.99	18.14	17.40	18.51	18.90
	8H	19.54	20.64	19.97	21.03	21.43	17.08	18.18	17.51	18.57	18.97
	12H	19.57	20.62	20.01	21.01	21.44	17.13	18.18	17.56	18.56	18.99
4H	2H	17.25	18.50	17.65	18.85	19.23	15.08	16.33	15.48	16.68	17.06
	3H	19.03	20.07	19.44	20.47	20.87	16.90	17.93	17.31	18.33	18.74
	4H	19.68	20.61	20.11	21.03	21.46	17.56	18.49	18.00	18.91	19.35
	6H	20.13	20.94	20.59	21.38	21.84	18.03	18.84	18.49	19.28	19.74
	8H	20.25	21.00	20.71	21.45	21.91	18.15	18.91	18.62	19.35	19.82
	12H	20.31	20.98	20.79	21.46	21.93	18.22	18.90	18.70	19.37	19.85
8H	4H	19.78	20.54	20.25	20.99	21.45	17.86	18.62	18.32	19.06	19.53
	6H	20.31	20.94	20.81	21.43	21.91	18.41	19.03	18.91	19.52	20.00
	8H	20.47	21.03	20.99	21.54	22.03	18.58	19.14	19.09	19.65	20.14
	12H	20.58	21.07	21.09	21.57	22.13	18.69	19.18	19.20	19.68	20.24
12H	4H	19.78	20.45	20.26	20.93	21.40	17.88	18.56	18.37	19.04	19.51
	6H	20.31	20.87	20.82	21.38	21.87	18.45	19.01	18.96	19.52	20.01
	8H	20.51	21.00	21.02	21.49	22.06	18.66	19.15	19.17	19.65	20.21