

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: P1217470

Luminaire Tested: S125DRP-H675D940-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217470
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-H675D940-X4F0-XX-UDD-G-W
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

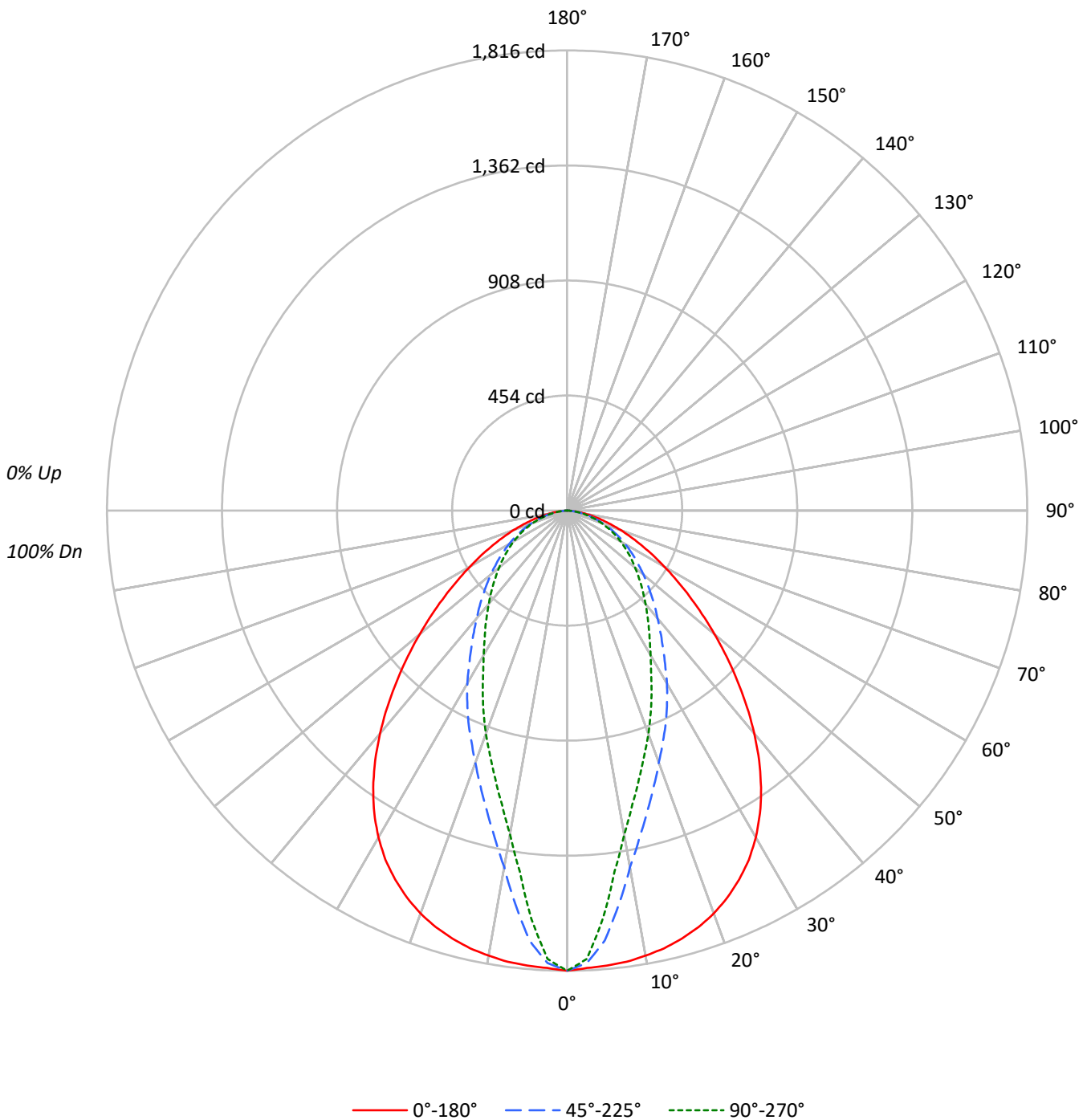
Lumens per Lamp: N/A
Luminaire Lumens: 2586.5 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 23.8
Input Voltage (V): 120
Input Current (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	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°	12837	12837	12837
5°	12792	12084	11476
10°	12803	10260	9311
15°	12798	8970	8021
20°	12729	7962	7050
25°	12530	7186	6142
30°	12155	6428	5369
35°	11517	5676	4851
40°	10604	5118	4443
45°	9502	4680	4115
50°	8349	4325	3849
55°	7256	4017	3638
60°	6266	3738	3444
65°	5396	3478	3240
70°	4624	3179	2991
75°	3859	2770	2658
80°	3045	2268	2198
85°	1955	1549	1549

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9502 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.9	6.0
10°-20°	368.1	14.2
20°-30°	467.6	18.1
30°-40°	476.3	18.4
40°-50°	421.3	16.3
50°-60°	330.2	12.8
60°-70°	225.2	8.7
70°-80°	116.0	4.5
80°-90°	25.9	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°	991.6	38.3
0°-40°	1467.9	56.8
0°-60°	2219.4	85.8
0°-90°	2586.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2586.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1816	1816	1816	1816	1816	
5°	1803	1794	1703	1636	1617	172
15°	1749	1479	1226	1117	1096	493
25°	1606	1141	921	812	787	738
35°	1334	863	658	574	562	831
45°	950	611	468	417	412	733
55°	589	408	326	296	295	530
65°	323	249	208	192	194	323
75°	141	119	101	95	97	152
85°	24	22	19	18	19	32
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1815.9	1815.9	1815.9	1815.9	1815.9
2.5°	1806.8	1820.9	1786.8	1777.7	1771.0
5°	1802.6	1793.5	1702.8	1636.3	1617.2
7.5°	1795.9	1745.2	1566.5	1453.4	1435.9
10°	1783.5	1669.6	1429.3	1318.7	1297.1
12.5°	1769.3	1578.9	1321.2	1208.9	1188.2
15°	1748.6	1479.2	1225.6	1116.6	1095.9
17.5°	1723.6	1384.4	1139.1	1031.8	1011.9
20°	1692.0	1297.9	1058.4	957.0	937.1
22.5°	1652.9	1216.4	986.9	883.0	861.4
25°	1606.4	1140.8	921.3	811.5	787.4
27.5°	1553.2	1068.4	853.9	740.0	716.7
30°	1489.1	997.7	787.4	676.8	657.7
32.5°	1416.8	929.6	719.2	621.9	606.1
35°	1334.5	863.1	657.7	574.5	562.1
37.5°	1244.7	797.4	604.5	530.5	519.7
40°	1149.1	733.3	554.6	489.7	481.4
42.5°	1050.1	671.8	511.3	453.1	445.7
45°	950.4	611.1	468.1	417.4	411.6
47.5°	853.1	555.4	429.9	385.0	380.0
50°	759.1	503.0	393.3	353.4	350.0
52.5°	671.0	454.0	357.5	324.3	322.6
55°	588.7	408.2	325.9	296.0	295.2
57.5°	513.0	365.0	294.3	268.6	268.6
60°	443.2	324.3	264.4	242.0	243.6
62.5°	380.8	285.2	236.1	217.0	218.7
65°	322.6	248.6	207.9	192.1	193.7
67.5°	270.2	213.7	180.4	167.1	168.8
70°	223.7	180.4	153.8	142.2	144.7
72.5°	180.4	149.7	127.2	118.1	120.6
75°	141.3	118.9	101.4	94.8	97.3
77.5°	106.4	90.6	78.2	72.3	74.8
80°	74.8	64.9	55.7	51.6	54.0
82.5°	46.6	41.6	36.6	33.3	34.9
85°	24.1	22.4	19.1	17.5	19.1
87.5°	8.3	8.3	7.5	6.7	7.5
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	17.74	19.23	18.11	19.54	19.86	15.13	16.62	15.50	16.93	17.25
	3H	19.33	20.66	19.71	20.99	21.35	16.77	18.11	17.15	18.43	18.80
	4H	19.86	21.11	20.26	21.46	21.84	17.35	18.60	17.75	18.95	19.33
	6H	20.20	21.35	20.61	21.72	22.11	17.72	18.88	18.14	19.24	19.64
	8H	20.28	21.38	20.71	21.77	22.17	17.82	18.92	18.25	19.31	19.71
	12H	20.31	21.36	20.74	21.74	22.17	17.86	18.91	18.30	19.30	19.73
4H	2H	17.99	19.23	18.39	19.58	19.96	15.82	17.07	16.22	17.42	17.79
	3H	19.77	20.80	20.18	21.21	21.61	17.64	18.67	18.05	19.07	19.47
	4H	20.41	21.35	20.85	21.76	22.20	18.30	19.23	18.73	19.65	20.09
	6H	20.87	21.68	21.33	22.12	22.58	18.77	19.58	19.22	20.02	20.48
	8H	20.98	21.74	21.45	22.18	22.65	18.89	19.65	19.35	20.09	20.56
	12H	21.04	21.72	21.53	22.20	22.67	18.96	19.63	19.44	20.11	20.58
8H	4H	20.52	21.28	20.99	21.72	22.19	18.60	19.35	19.06	19.80	20.27
	6H	21.05	21.67	21.55	22.17	22.64	19.15	19.77	19.65	20.26	20.74
	8H	21.21	21.77	21.73	22.28	22.77	19.32	19.87	19.83	20.39	20.87
	12H	21.32	21.81	21.83	22.30	22.87	19.43	19.92	19.94	20.41	20.98
12H	4H	20.51	21.19	21.00	21.67	22.14	18.62	19.30	19.11	19.78	20.25
	6H	21.05	21.60	21.56	22.12	22.60	19.19	19.75	19.70	20.26	20.75
	8H	21.25	21.74	21.76	22.23	22.80	19.40	19.89	19.91	20.39	20.95