

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: P1217479

Luminaire Tested: S125DRP-H865D940-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217479
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-H865D940-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

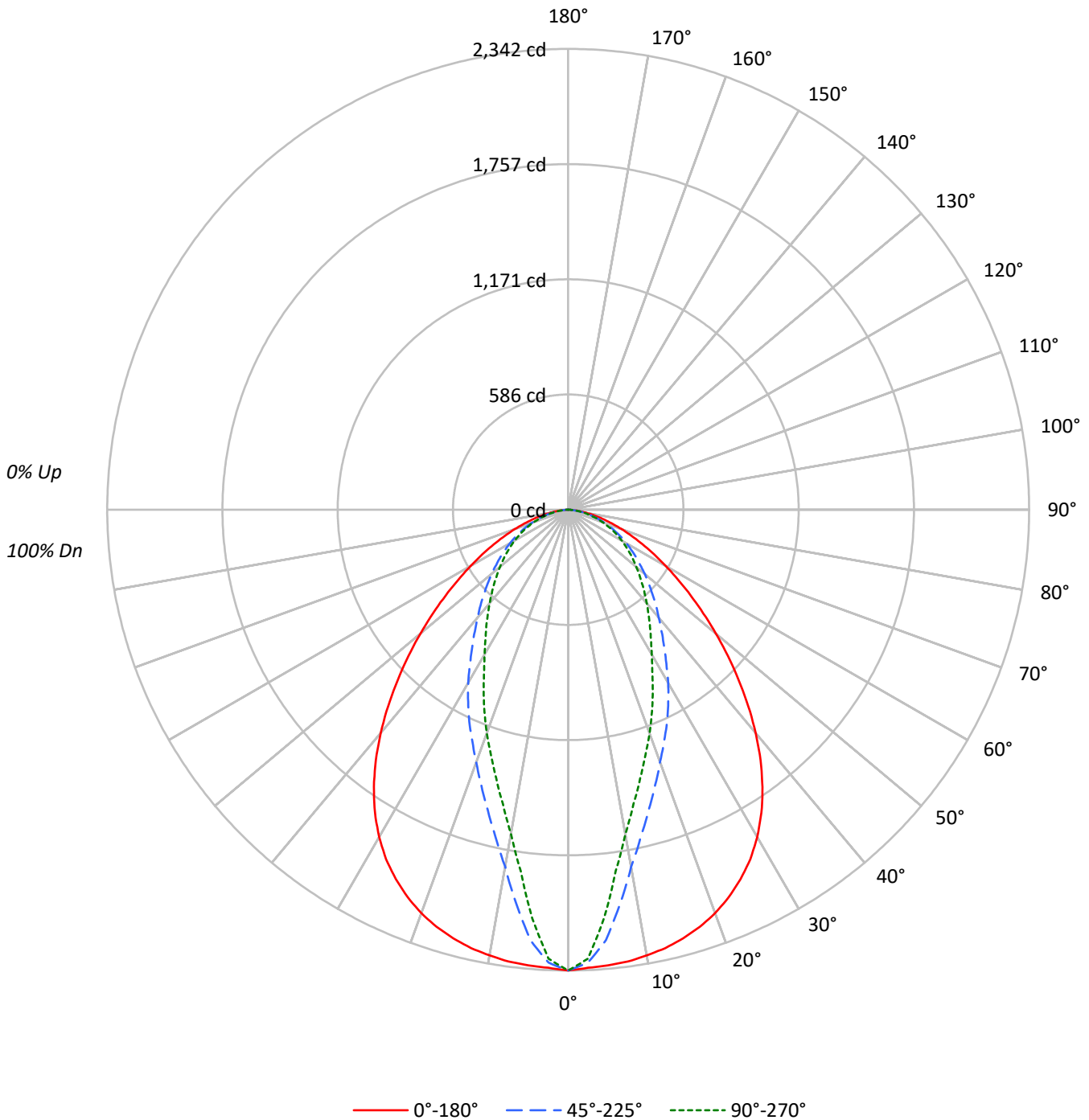
Lumens per Lamp: N/A
Luminaire Lumens: 3335.6 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 30.9
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°	16556	16556	16556
5°	16497	15584	14800
10°	16510	13231	12008
15°	16504	11567	10344
20°	16416	10269	9092
25°	16159	9267	7920
30°	15676	8289	6924
35°	14852	7320	6256
40°	13676	6600	5729
45°	12253	6036	5307
50°	10767	5578	4964
55°	9357	5180	4692
60°	8080	4821	4442
65°	6959	4485	4179
70°	5961	4101	3857
75°	4979	3573	3428
80°	3929	2923	2838
85°	2523	2003	2003

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12253 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.0	6.0
10°-20°	474.7	14.2
20°-30°	603.1	18.1
30°-40°	614.2	18.4
40°-50°	543.3	16.3
50°-60°	425.8	12.8
60°-70°	290.4	8.7
70°-80°	149.6	4.5
80°-90°	33.4	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°	1278.8	38.3
0°-40°	1893.0	56.8
0°-60°	2862.1	85.8
0°-90°	3335.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3335.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2342	2342	2342	2342	2342	
5°	2325	2313	2196	2110	2086	221
15°	2255	1908	1580	1440	1413	636
25°	2072	1471	1188	1046	1015	952
35°	1721	1113	848	741	725	1071
45°	1226	788	604	538	531	945
55°	759	526	420	382	381	683
65°	416	321	268	248	250	416
75°	182	153	131	122	126	196
85°	31	29	25	22	25	41
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2341.9	2341.9	2341.9	2341.9	2341.9
2.5°	2330.1	2348.3	2304.3	2292.5	2284.0
5°	2324.7	2312.9	2196.0	2110.2	2085.6
7.5°	2316.1	2250.7	2020.2	1874.3	1851.8
10°	2300.0	2153.1	1843.2	1700.6	1672.8
12.5°	2281.8	2036.3	1703.8	1559.1	1532.3
15°	2255.0	1907.6	1580.5	1440.1	1413.3
17.5°	2222.8	1785.3	1469.0	1330.7	1305.0
20°	2182.1	1673.8	1365.0	1234.2	1208.5
22.5°	2131.7	1568.7	1272.8	1138.8	1110.9
25°	2071.6	1471.2	1188.1	1046.5	1015.4
27.5°	2003.0	1377.9	1101.2	954.3	924.3
30°	1920.4	1286.7	1015.4	872.8	848.2
32.5°	1827.2	1198.8	927.5	802.1	781.7
35°	1721.0	1113.0	848.2	740.9	724.9
37.5°	1605.2	1028.3	779.5	684.1	670.2
40°	1481.9	945.7	715.2	631.6	620.8
42.5°	1354.3	866.4	659.5	584.4	574.7
45°	1225.6	788.1	603.7	538.3	530.8
47.5°	1100.2	716.3	554.4	496.5	490.0
50°	979.0	648.7	507.2	455.7	451.4
52.5°	865.3	585.5	461.1	418.2	416.0
55°	759.2	526.5	420.3	381.7	380.7
57.5°	661.6	470.7	379.6	346.3	346.3
60°	571.5	418.2	341.0	312.0	314.2
62.5°	491.1	367.8	304.5	279.9	282.0
65°	416.0	320.6	268.1	247.7	249.8
67.5°	348.5	275.6	232.7	215.5	217.7
70°	288.4	232.7	198.4	183.4	186.6
72.5°	232.7	193.0	164.1	152.3	155.5
75°	182.3	153.3	130.8	122.2	125.5
77.5°	137.3	116.9	100.8	93.3	96.5
80°	96.5	83.6	71.8	66.5	69.7
82.5°	60.0	53.6	47.2	42.9	45.0
85°	31.1	29.0	24.7	22.5	24.7
87.5°	10.7	10.7	9.7	8.6	9.7
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	18.63	20.11	18.99	20.43	20.74	16.01	17.50	16.38	17.81	18.13
	3H	20.21	21.55	20.59	21.87	22.24	17.66	18.99	18.03	19.32	19.68
	4H	20.75	22.00	21.15	22.35	22.73	18.23	19.48	18.63	19.83	20.21
	6H	21.09	22.24	21.50	22.61	23.00	18.61	19.76	19.02	20.13	20.52
	8H	21.16	22.26	21.59	22.65	23.05	18.70	19.80	19.13	20.19	20.59
	12H	21.20	22.25	21.63	22.63	23.06	18.75	19.80	19.18	20.18	20.61
4H	2H	18.87	20.12	19.27	20.47	20.85	16.70	17.95	17.10	18.30	18.68
	3H	20.65	21.69	21.06	22.09	22.49	18.52	19.56	18.93	19.96	20.36
	4H	21.30	22.23	21.73	22.65	23.09	19.18	20.12	19.62	20.53	20.97
	6H	21.75	22.56	22.21	23.00	23.47	19.65	20.46	20.11	20.90	21.36
	8H	21.87	22.62	22.33	23.07	23.54	19.77	20.53	20.24	20.97	21.44
	12H	21.93	22.60	22.41	23.08	23.55	19.84	20.52	20.33	21.00	21.47
8H	4H	21.41	22.16	21.87	22.61	23.08	19.48	20.24	19.95	20.68	21.15
	6H	21.94	22.56	22.43	23.05	23.53	20.03	20.65	20.53	21.15	21.62
	8H	22.10	22.65	22.61	23.16	23.65	20.20	20.76	20.72	21.27	21.76
	12H	22.20	22.69	22.71	23.19	23.75	20.31	20.80	20.82	21.30	21.86
12H	4H	21.40	22.07	21.88	22.55	23.02	19.51	20.18	19.99	20.66	21.13
	6H	21.93	22.49	22.44	23.00	23.49	20.07	20.63	20.59	21.14	21.63
	8H	22.13	22.62	22.64	23.11	23.68	20.28	20.78	20.79	21.27	21.83