

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: P1217333

Luminaire Tested: S122DRP-S675D930-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217333
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G3-2511-596-2)
Test Lab: INNOVATION CENTER
Issue Date: 4/9/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DRP-S675D930-X4F0-XX-UDD-G-W
Description: DEFINE 2, DIRECT RECESSED WITH GRAZE FLUSH OPTIC
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

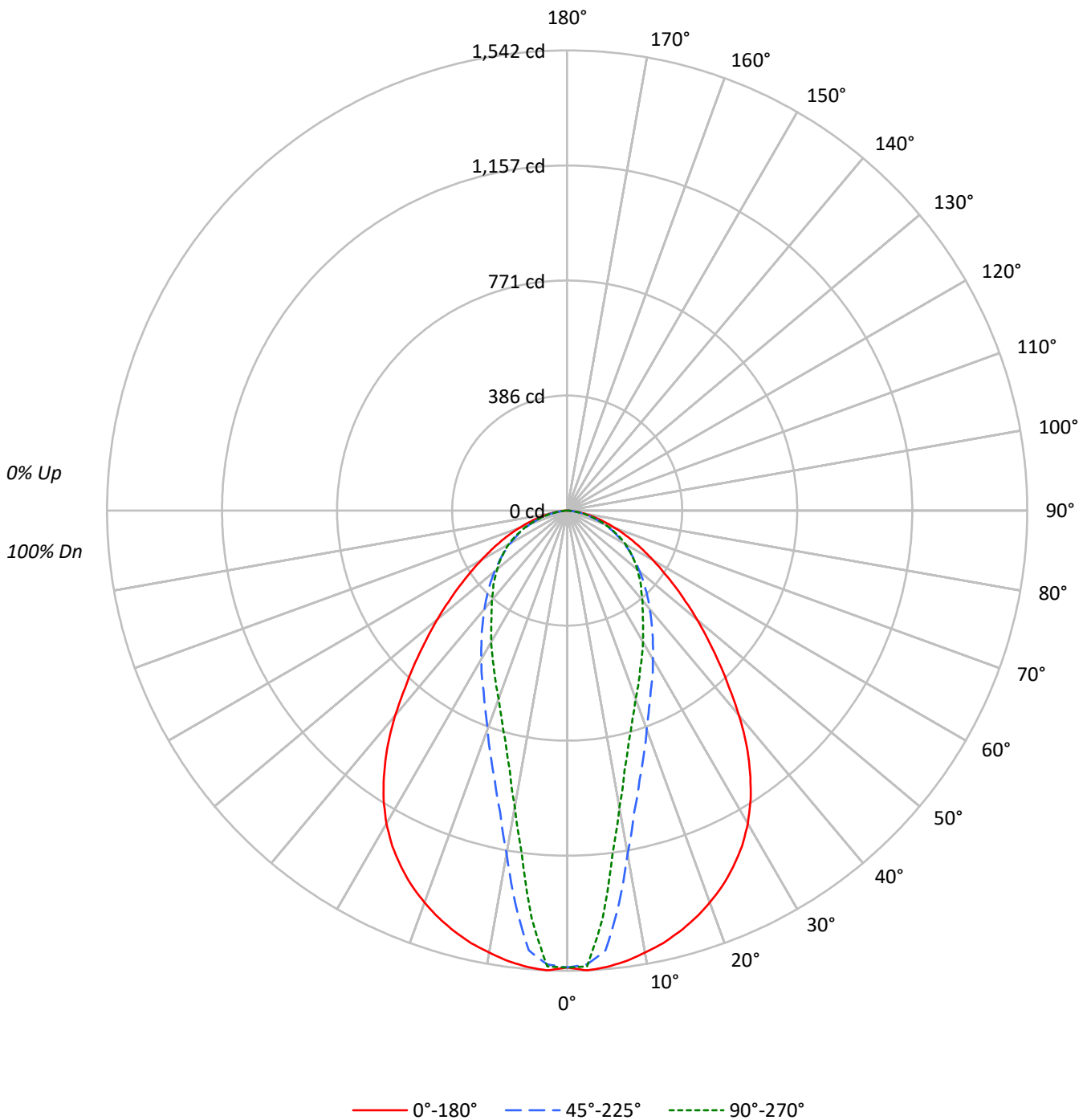
Lumens per Lamp: N/A
Luminaire Lumens: 2057.4 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 0.5 / 0.8
Luminous Opening: Rectangular (W 0.15' x L: 3.9' x H: 0')
CIE Type: Direct

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	93	91	92	90	89	87					87			
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75					75			
3	93	84	77	71	91	82	76	70	80	74	69	77	72	68	74	70	67	65					65			
4	86	76	68	62	84	74	67	61	72	65	60	70	64	60	68	63	59	57					57			
5	80	69	60	54	78	67	60	54	65	59	53	63	58	53	62	57	52	50					50			
6	75	63	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	45					45			
7	70	57	49	44	68	57	49	44	55	48	43	54	48	43	52	47	43	41					41			
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37					37			
9	62	49	41	36	60	49	41	36	47	41	36	46	40	36	45	40	36	34					34			
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	43	37	33	31					31			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	29006	29006	29006
5°	29193	28130	26049
10°	28932	22462	19421
15°	28635	18359	15680
20°	28178	15716	13527
25°	27531	13874	12137
30°	26486	12579	11129
35°	24715	11527	10234
40°	22162	10647	9697
45°	19281	9951	9351
50°	16736	9346	9016
55°	14484	8836	8783
60°	12557	8321	8564
65°	10992	7805	8092
70°	9467	7168	7434
75°	7891	6317	6544
80°	6186	5139	4964
85°	3826	3304	3304

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19281 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.8	6.4
10°-20°	290.7	14.1
20°-30°	356.6	17.3
30°-40°	368.5	17.9
40°-50°	332.8	16.2
50°-60°	269.7	13.1
60°-70°	189.1	9.2
70°-80°	97.5	4.7
80°-90°	20.6	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°	779.1	37.9
0°-40°	1147.6	55.8
0°-60°	1750.2	85.1
0°-90°	2057.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2057.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1531	1531	1531	1531	1531	
5°	1535	1532	1479	1413	1370	145
15°	1460	1231	936	835	799	411
25°	1317	874	664	601	581	605
35°	1069	646	498	456	442	664
45°	720	466	371	351	349	557
55°	438	319	268	264	266	395
65°	245	196	174	178	180	245
75°	108	93	86	89	89	116
85°	18	15	15	15	15	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1531.0	1531.0	1531.0	1531.0	1531.0
2.5°	1542.2	1536.6	1522.2	1535.8	1528.6
5°	1535.0	1531.8	1479.1	1412.8	1369.7
7.5°	1522.2	1511.0	1328.9	1203.6	1161.2
10°	1503.9	1447.9	1167.6	1051.0	1009.5
12.5°	1484.7	1352.9	1037.4	928.0	890.5
15°	1459.9	1230.7	936.0	834.6	799.4
17.5°	1431.2	1124.5	855.4	757.9	730.0
20°	1397.6	1032.7	779.5	694.0	670.9
22.5°	1360.9	955.2	716.4	646.9	625.3
25°	1317.0	874.5	663.7	600.6	580.6
27.5°	1268.3	813.0	619.8	560.7	543.9
30°	1210.7	753.1	575.0	522.3	508.7
32.5°	1145.3	697.2	535.1	488.8	472.8
35°	1068.6	646.1	498.4	456.0	442.5
37.5°	987.1	595.8	463.2	426.5	415.3
40°	896.1	551.9	430.5	397.7	392.1
42.5°	802.6	507.9	400.9	373.0	368.2
45°	719.6	465.6	371.4	350.6	349.0
47.5°	638.9	427.3	344.2	328.2	326.6
50°	567.8	387.3	317.1	306.7	305.9
52.5°	500.0	352.2	291.5	285.9	287.5
55°	438.5	318.7	267.5	264.4	265.9
57.5°	381.8	287.5	243.6	244.4	246.8
60°	331.4	255.6	219.6	222.8	226.0
62.5°	287.5	226.0	196.5	201.3	204.5
65°	245.2	196.5	174.1	178.1	180.5
67.5°	207.6	168.5	151.7	156.5	157.3
70°	170.9	143.0	129.4	134.2	134.2
72.5°	139.0	116.6	107.8	110.2	111.0
75°	107.8	92.6	86.3	88.6	89.4
77.5°	81.5	70.3	65.5	67.9	67.1
80°	56.7	49.5	47.1	46.3	45.5
82.5°	35.1	31.1	28.8	29.5	28.8
85°	17.6	15.2	15.2	15.2	15.2
87.5°	5.6	5.6	5.6	5.6	5.6
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	20.20	21.70	20.56	22.01	22.33	18.70	20.20	19.06	20.51	20.82
	3H	21.78	23.13	22.16	23.46	23.82	20.41	21.75	20.79	22.08	22.44
	4H	22.31	23.57	22.71	23.92	24.30	20.99	22.25	21.39	22.60	22.98
	6H	22.63	23.80	23.05	24.17	24.56	21.34	22.50	21.75	22.87	23.26
	8H	22.71	23.82	23.14	24.21	24.61	21.41	22.52	21.84	22.91	23.31
	12H	22.74	23.80	23.17	24.18	24.61	21.44	22.50	21.87	22.89	23.32
4H	2H	20.51	21.77	20.91	22.12	22.50	19.26	20.52	19.66	20.87	21.25
	3H	22.29	23.34	22.70	23.74	24.14	21.17	22.22	21.58	22.62	23.02
	4H	22.92	23.86	23.35	24.28	24.72	21.87	22.81	22.30	23.23	23.67
	6H	23.35	24.17	23.81	24.61	25.07	22.32	23.14	22.78	23.58	24.04
	8H	23.46	24.22	23.92	24.67	25.13	22.42	23.19	22.89	23.63	24.10
	12H	23.51	24.19	23.99	24.67	25.14	22.48	23.16	22.96	23.64	24.11
8H	4H	23.07	23.83	23.53	24.28	24.74	22.11	22.87	22.57	23.32	23.79
	6H	23.57	24.20	24.07	24.70	25.17	22.65	23.28	23.14	23.77	24.25
	8H	23.72	24.28	24.23	24.80	25.28	22.80	23.36	23.31	23.87	24.36
	12H	23.81	24.31	24.32	24.80	25.37	22.89	23.39	23.40	23.88	24.45
12H	4H	23.06	23.75	23.55	24.23	24.70	22.12	22.80	22.60	23.28	23.75
	6H	23.58	24.14	24.09	24.65	25.14	22.67	23.23	23.18	23.74	24.23
	8H	23.76	24.26	24.27	24.75	25.32	22.86	23.36	23.37	23.85	24.41