

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1029586

Luminaire Tested: S122DIW-B485D970UB2750-4F0-XX-W2A-F1_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029586
REPORT IS A COMBINATION OF REPORTS P986317 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B485D970UB2750-4F0-XX-W2A-F1_2700K
Description: Define 2 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

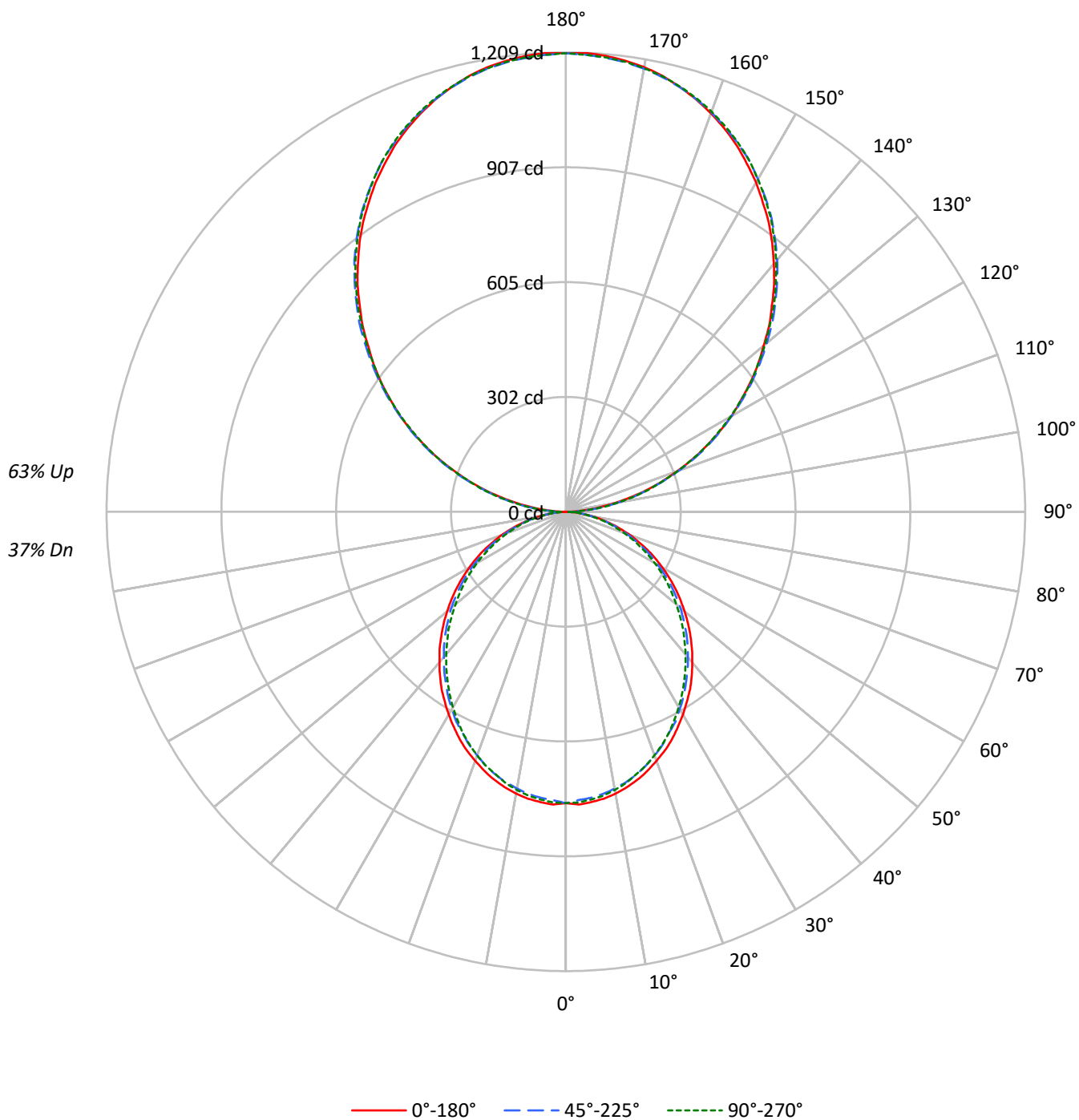
Lumens per Lamp: N/A
Luminaire Lumens: 5328.0 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 55.5
Input Voltage (V):
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44			37
1	95	91	87	83	86	82	79	76	66	64	62	52	51	49	39	38	37			31
2	86	79	73	68	78	72	67	62	58	55	51	46	43	41	34	33	31			26
3	79	69	62	57	71	63	57	52	51	47	43	40	37	35	30	28	27			22
4	72	61	54	48	65	56	49	44	46	41	37	36	32	30	27	25	23			19
5	66	55	47	41	60	50	43	38	41	36	32	32	29	26	24	22	20			16
6	61	49	41	35	55	45	38	33	37	31	28	29	25	22	22	19	17			14
7	56	44	36	31	51	40	33	29	33	28	24	26	23	20	20	18	16			13
8	52	40	32	27	47	37	30	25	30	25	21	24	20	18	18	16	14			11
9	48	36	29	24	44	33	27	22	28	23	19	22	18	16	17	14	13			10
10	45	33	26	22	41	31	24	20	25	20	17	20	17	14	16	13	11			9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12139	12139	12139
5°	12159	11571	11488
10°	12060	11044	10825
15°	11883	10512	10125
20°	11644	9934	9464
25°	11407	9330	8802
30°	11106	8764	8109
35°	10825	8165	7428
40°	10476	7574	6783
45°	10129	6989	6152
50°	9752	6394	5497
55°	9353	5755	4877
60°	8906	5066	4232
65°	8415	4365	3554
70°	7791	3597	2869
75°	6931	2773	2216
80°	5884	1884	1425
85°	4266	878	607

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10129 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.2	1.4
10°-20°	203.1	3.8
20°-30°	298.4	5.6
30°-40°	346.6	6.5
40°-50°	346.2	6.5
50°-60°	301.9	5.7
60°-70°	223.1	4.2
70°-80°	126.3	2.4
80°-90°	36.7	0.7
90°-100°	74.6	1.4
100°-110°	237.3	4.5
110°-120°	406.0	7.6
120°-130°	534.0	10.0
130°-140°	599.4	11.3
140°-150°	587.8	11.0
150°-160°	493.1	9.3
160°-170°	327.0	6.1
170°-180°	114.3	2.1
0°-30°	573.7	10.8
0°-40°	920.3	17.3
0°-60°	1568.3	29.4
0°-90°	1954.4	36.7
90°-120°	718.0	13.5
90°-150°	2439.2	45.8
90°-180°	3374.0	63.3
0°-180°	5328.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	767	767	767	767	767	
5°	767	764	756	762	760	73
15°	730	726	716	719	715	206
25°	661	655	642	644	642	304
35°	570	563	551	546	543	356
45°	464	459	448	440	436	358
55°	351	347	338	329	325	314
65°	237	232	225	218	215	234
75°	124	122	119	114	116	132
85°	30	30	29	26	26	34
90°	1	13	36	34	35	5
95°	53	63	65	65	63	59
105°	219	222	224	226	226	231
115°	407	413	411	410	407	403
125°	593	602	599	596	595	530
135°	767	778	780	779	776	593
145°	931	938	944	945	941	581
155°	1064	1067	1070	1075	1072	490
165°	1158	1157	1157	1164	1159	327
175°	1205	1202	1200	1207	1200	114
180°	1207	1207	1207	1207	1207	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	766.9	766.9	766.9	766.9	766.9
2.5°	771.3	767.6	759.5	766.9	765.4
5°	766.9	763.9	755.8	761.7	760.2
7.5°	761.7	757.3	749.2	755.1	753.6
10°	753.6	748.4	739.6	745.5	743.3
12.5°	742.5	738.1	729.2	732.9	731.5
15°	730.0	725.6	716.0	718.9	715.2
17.5°	714.5	710.1	700.5	704.2	700.5
20°	697.5	693.1	682.8	685.0	682.1
22.5°	680.6	673.9	664.4	664.4	662.9
25°	660.7	654.8	642.2	643.7	642.2
27.5°	638.6	633.4	623.8	621.6	617.9
30°	616.4	610.5	599.5	597.3	594.3
32.5°	592.8	588.4	576.6	572.2	569.2
35°	570.0	562.6	550.8	546.4	542.7
37.5°	544.2	537.5	525.7	520.6	516.9
40°	517.6	511.7	499.9	493.3	490.3
42.5°	491.8	485.9	474.1	466.7	462.3
45°	463.8	458.6	447.6	439.5	436.5
47.5°	436.5	431.4	419.6	411.4	407.0
50°	407.8	404.1	393.8	383.4	379.7
52.5°	379.7	374.6	365.0	356.9	351.7
55°	351.0	346.6	337.7	328.9	325.2
57.5°	322.2	318.5	309.0	300.1	297.2
60°	293.5	290.5	280.2	272.1	269.9
62.5°	265.4	260.3	252.9	245.5	242.6
65°	236.7	232.3	224.9	218.3	214.6
67.5°	207.2	203.5	196.9	191.7	188.8
70°	179.9	177.0	170.3	165.2	162.2
72.5°	151.9	148.9	145.3	140.1	137.9
75°	123.9	122.4	118.7	114.3	115.8
77.5°	98.8	95.9	94.4	92.2	90.0
80°	73.7	73.0	71.5	69.3	67.8
82.5°	50.1	50.1	49.4	46.5	46.5
85°	30.2	29.5	28.8	26.5	25.8
87.5°	13.3	11.8	10.3	8.1	7.4
90°	1.0	13.2	35.6	33.6	34.6
92.5°	22.4	30.5	31.6	32.6	32.6
95°	53.0	63.1	65.2	65.2	63.1
97.5°	88.6	97.8	101.8	101.8	101.8
100°	129.3	137.5	140.5	140.5	139.5
102.5°	172.1	178.2	182.3	183.3	182.3
105°	218.9	222.0	224.0	226.1	226.1
107.5°	265.8	269.8	269.8	270.9	265.8
110°	310.6	316.7	316.7	316.7	313.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	359.4	365.6	364.5	361.5	359.4
115°	407.3	413.4	411.4	410.4	407.3
117.5°	455.2	463.3	458.2	455.2	452.1
120°	503.0	511.2	503.0	503.0	500.0
122.5°	546.8	557.0	551.9	548.8	546.8
125°	592.6	601.8	598.7	595.7	594.7
127.5°	637.4	648.6	644.6	640.5	637.4
130°	679.2	692.4	690.4	688.4	684.3
132.5°	726.0	736.2	737.2	732.1	729.1
135°	766.8	778.0	780.0	779.0	775.9
137.5°	811.6	820.7	822.8	821.7	817.7
140°	851.3	860.4	865.5	865.5	861.5
142.5°	892.0	901.2	904.2	905.2	901.2
145°	930.7	937.8	943.9	945.0	940.9
147.5°	965.3	974.5	978.6	980.6	976.5
150°	1001.0	1007.1	1011.1	1014.2	1011.1
152.5°	1032.5	1038.6	1043.7	1047.8	1043.7
155°	1064.1	1067.1	1070.2	1075.3	1072.2
157.5°	1091.6	1093.6	1095.7	1102.8	1097.7
160°	1116.0	1118.1	1119.1	1125.2	1121.1
162.5°	1138.4	1138.4	1139.4	1146.6	1141.5
165°	1157.8	1156.8	1156.8	1163.9	1158.8
167.5°	1175.1	1172.0	1172.0	1179.2	1174.1
170°	1188.3	1185.3	1184.2	1191.4	1185.3
172.5°	1197.5	1194.4	1193.4	1200.5	1194.4
175°	1204.6	1201.6	1199.5	1206.7	1200.5
177.5°	1208.7	1205.6	1203.6	1209.7	1203.6
180°	1206.7	1206.7	1206.7	1206.7	1206.7

(END OF REPORT)