

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: P1029577

Luminaire Tested: S122DIW-B485D970UB2750-4F0-XX-W2A-D1_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029577
REPORT IS A COMBINATION OF REPORTS P986302 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-D1_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

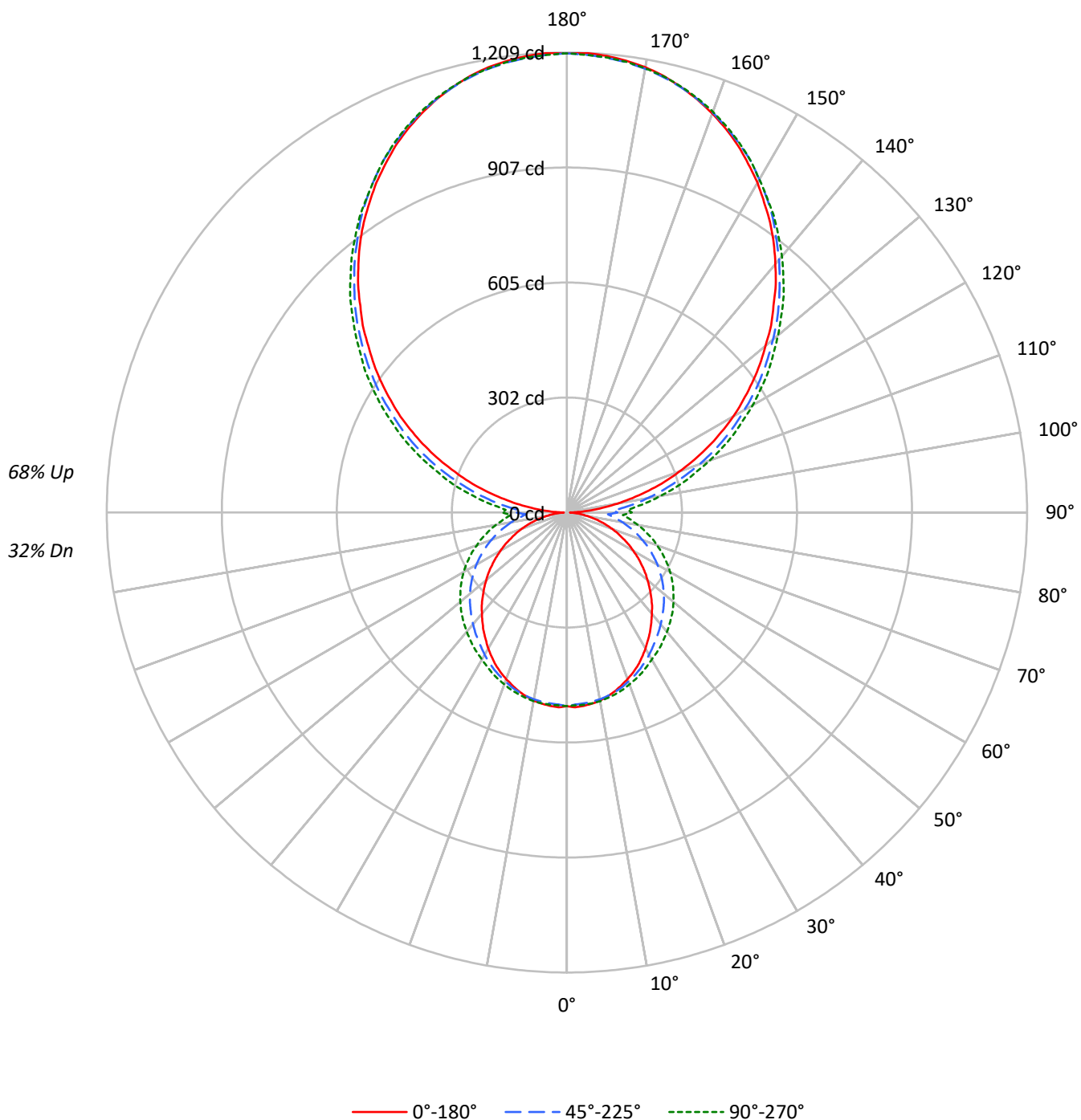
Lumens per Lamp: N/A
Luminaire Lumens: 5318.0 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	40	40	32
1	93	88	84	80	83	79	76	73	63	60	58	48	46	45	34	33	32	32	32	25
2	84	76	70	65	75	69	63	59	55	51	47	41	39	36	29	27	26	26	26	20
3	76	67	59	53	68	60	54	49	48	43	39	36	33	30	26	23	22	22	22	17
4	70	59	51	45	62	53	46	41	42	37	33	32	29	26	23	20	18	18	18	14
5	64	52	44	38	57	47	40	35	37	32	28	29	25	22	20	18	16	16	16	12
6	59	47	38	33	52	42	35	30	34	28	24	26	22	19	18	16	14	14	14	11
7	54	42	34	28	48	38	31	26	30	25	21	23	19	17	17	14	12	12	12	9
8	50	38	30	25	45	34	28	23	28	22	19	21	17	15	15	13	11	11	11	8
9	46	34	27	22	42	31	25	20	25	20	17	19	16	13	14	12	10	10	10	7
10	43	31	24	20	39	29	22	18	23	18	15	18	14	12	13	10	9	9	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8052	8052	8052
5°	8089	7708	7665
10°	8035	7442	7332
15°	7921	7166	6992
20°	7777	6876	6670
25°	7636	6597	6376
30°	7440	6315	6085
35°	7240	6043	5873
40°	7027	5809	5661
45°	6827	5595	5476
50°	6612	5398	5294
55°	6384	5190	5108
60°	6108	4972	4913
65°	5819	4722	4689
70°	5491	4454	4447
75°	5074	4184	4219
80°	4415	3905	3984
85°	3743	3641	3779

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6827 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.2	0.9
10°-20°	138.3	2.6
20°-30°	209.6	3.9
30°-40°	255.2	4.8
40°-50°	274.6	5.2
50°-60°	266.6	5.0
60°-70°	232.9	4.4
70°-80°	179.2	3.4
80°-90°	123.5	2.3
90°-100°	157.4	3.0
100°-110°	297.8	5.6
110°-120°	446.0	8.4
120°-130°	556.2	10.5
130°-140°	608.7	11.4
140°-150°	589.4	11.1
150°-160°	493.1	9.3
160°-170°	327.0	6.1
170°-180°	114.3	2.1
0°-30°	396.1	7.4
0°-40°	651.3	12.2
0°-60°	1192.5	22.4
0°-90°	1728.1	32.5
90°-120°	901.2	16.9
90°-150°	2655.6	49.9
90°-180°	3590.0	67.5
0°-180°	5318.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	509	509	509	509	509	
5°	510	508	504	508	507	48
15°	487	488	488	495	494	137
25°	442	448	454	463	465	203
35°	381	394	408	424	429	238
45°	313	332	358	381	388	241
55°	240	266	304	331	341	214
65°	164	200	243	274	283	163
75°	91	132	179	211	220	96
85°	26	72	119	150	161	28
90°	8	63	133	160	170	8
95°	59	104	150	178	185	64
105°	223	247	287	315	323	235
115°	410	424	456	477	482	406
125°	594	603	624	641	646	531
135°	768	779	788	803	805	593
145°	931	938	944	949	949	582
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°	508.7	508.7	508.7	508.7	508.7
2.5°	512.4	510.2	505.0	508.7	507.2
5°	510.2	508.0	503.5	508.0	507.2
7.5°	506.5	505.0	501.3	506.5	505.7
10°	502.1	500.6	498.4	504.3	503.5
12.5°	494.7	495.4	493.9	499.8	499.1
15°	486.6	488.1	488.1	494.7	493.9
17.5°	476.3	479.2	481.4	488.1	488.1
20°	465.9	469.6	472.6	480.7	480.7
22.5°	454.9	459.3	463.7	471.8	473.3
25°	442.3	447.5	454.1	463.0	465.2
27.5°	427.6	435.7	443.1	454.1	455.6
30°	412.9	422.4	432.0	443.8	446.0
32.5°	396.6	407.7	419.5	433.5	437.9
35°	381.2	393.7	407.7	423.9	429.1
37.5°	364.2	378.2	395.9	413.6	418.8
40°	347.2	363.5	383.4	402.5	409.2
42.5°	331.0	347.2	370.8	392.2	398.8
45°	312.6	332.5	358.3	381.2	388.5
47.5°	294.9	316.3	345.8	369.4	377.5
50°	276.5	299.3	332.5	357.6	365.7
52.5°	258.8	283.1	318.5	344.3	353.1
55°	239.6	266.1	304.5	331.0	340.6
57.5°	221.2	250.7	289.0	317.7	327.3
60°	201.3	233.0	275.0	303.0	313.3
62.5°	183.6	216.7	258.8	289.0	298.6
65°	163.7	199.8	243.3	273.5	283.1
67.5°	146.0	183.6	227.8	258.0	268.4
70°	126.8	165.1	210.9	242.6	251.4
72.5°	109.1	148.9	195.4	226.3	237.4
75°	90.7	132.0	179.1	210.9	220.4
77.5°	73.0	115.7	163.7	195.4	205.7
80°	55.3	100.3	148.2	179.1	189.5
82.5°	40.5	84.8	133.4	164.4	174.0
85°	26.5	72.2	119.4	150.4	160.7
87.5°	16.2	60.5	107.6	137.9	147.4
90°	8.4	63.3	132.9	160.4	170.3
92.5°	29.0	76.2	122.3	152.0	160.9
95°	58.9	103.6	150.0	178.0	184.7
97.5°	93.8	134.7	181.4	208.7	217.5
100°	134.5	169.9	214.2	241.5	248.6
102.5°	176.5	207.0	250.9	278.4	285.5
105°	222.6	247.1	287.4	315.3	323.4
107.5°	269.5	291.2	328.0	354.2	357.2
110°	313.5	334.4	370.5	394.1	399.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	362.3	380.3	413.2	433.7	439.8
115°	410.2	424.5	455.6	476.8	481.8
117.5°	457.4	471.4	497.3	516.4	520.7
120°	505.2	516.4	537.7	558.3	563.4
122.5°	549.0	559.9	582.1	598.9	603.6
125°	594.1	603.3	623.8	640.7	646.3
127.5°	638.9	649.3	665.2	679.6	683.1
130°	680.7	693.1	706.6	722.3	724.1
132.5°	727.5	736.9	749.0	760.9	763.8
135°	767.5	778.7	788.1	802.6	805.4
137.5°	812.3	821.4	827.2	840.1	841.3
140°	852.0	860.4	867.0	878.8	879.2
142.5°	892.7	901.2	904.2	914.0	913.7
145°	930.7	937.8	943.9	949.4	949.0
147.5°	965.3	974.5	978.6	981.3	979.4
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)