

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: P1029582

Luminaire Tested: S122DIW-B485D970UB2750-4F0-XX-W2A-D_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029582
REPORT IS A COMBINATION OF REPORTS P986312 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-D_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

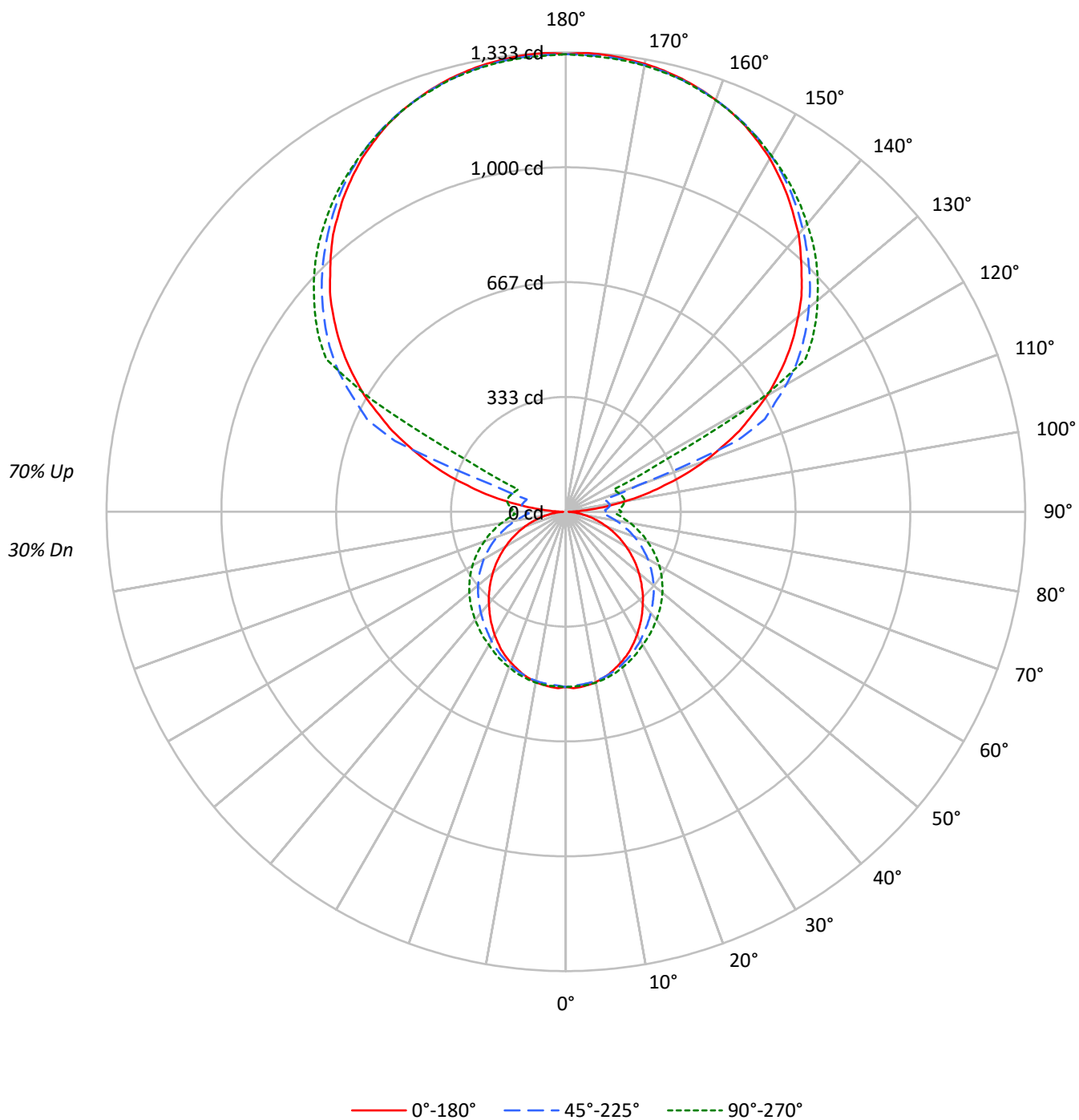
Lumens per Lamp: N/A
Luminaire Lumens: 5836.0 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	102	102	102	102	92	92	92	92	72	72	72	54	54	54	37	37	37	37	37	30
1	92	88	84	80	82	79	75	72	62	59	57	46	44	43	32	31	30	30	30	23
2	84	76	70	64	75	68	63	58	53	50	46	40	37	35	27	26	24	24	24	19
3	76	67	59	53	68	60	53	48	47	42	39	35	32	29	24	22	20	20	20	15
4	69	59	51	45	62	53	46	41	41	36	33	31	28	25	21	19	17	17	17	13
5	63	52	44	38	56	47	40	34	37	32	28	28	24	21	19	17	15	15	15	11
6	58	46	38	33	52	42	35	30	33	28	24	25	21	18	17	15	13	13	13	10
7	54	42	34	28	48	38	31	26	30	25	21	22	19	16	16	13	11	11	11	8
8	50	38	30	25	44	34	27	23	27	22	18	20	17	14	14	12	10	10	10	7
9	46	34	27	22	41	31	24	20	25	20	16	19	15	13	13	11	9	9	9	7
10	43	31	24	19	38	28	22	18	23	18	15	17	14	11	12	10	8	8	8	6

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	0.8
10°-20°	138.3	2.4
20°-30°	209.6	3.6
30°-40°	255.2	4.4
40°-50°	274.6	4.7
50°-60°	266.6	4.6
60°-70°	232.9	4.0
70°-80°	179.2	3.1
80°-90°	122.4	2.1
90°-100°	126.6	2.2
100°-110°	223.7	3.8
110°-120°	472.8	8.1
120°-130°	740.2	12.7
130°-140°	772.0	13.2
140°-150°	710.4	12.2
150°-160°	569.8	9.8
160°-170°	367.2	6.3
170°-180°	126.4	2.2
0°-30°	396.1	6.8
0°-40°	651.3	11.2
0°-60°	1192.5	20.4
0°-90°	1727.0	29.6
90°-120°	823.1	14.1
90°-150°	3045.6	52.2
90°-180°	4109.0	70.4
0°-180°	5836.0	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	62	116	151	162	9
95°	68	71	122	155	163	79
105°	296	346	122	158	170	316
115°	555	580	637	214	153	546
125°	783	795	837	864	873	698
135°	967	983	999	1024	1028	747
145°	1121	1120	1137	1148	1147	701
155°	1235	1226	1238	1243	1236	569
165°	1301	1295	1298	1305	1298	368
175°	1331	1324	1326	1333	1323	127
180°	1328	1328	1328	1328	1328	

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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	61.6	116.5	150.8	161.6
92.5°	30.6	65.9	113.8	144.4	154.2
95°	68.4	71.2	122.3	155.1	162.9
97.5°	117.6	70.5	128.6	158.8	168.5
100°	175.3	70.8	128.5	163.5	173.5
102.5°	237.9	260.3	125.3	162.4	173.3
105°	295.8	346.0	122.0	158.4	170.3
107.5°	364.0	405.7	118.7	154.4	166.3
110°	428.5	463.5	221.9	149.5	161.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	490.0	519.1	536.8	146.2	157.3
115°	555.4	579.9	637.0	214.4	153.3
117.5°	611.3	636.5	683.8	568.5	324.2
120°	674.8	692.2	739.0	771.1	649.5
122.5°	728.6	744.6	791.1	816.8	824.5
125°	782.6	795.1	837.0	863.6	873.1
127.5°	832.6	845.2	879.5	907.7	915.2
130°	879.7	894.2	920.3	948.6	953.5
132.5°	927.7	939.4	961.1	986.7	991.6
135°	967.3	982.6	998.7	1023.8	1027.8
137.5°	1009.5	1021.1	1034.4	1058.0	1060.3
140°	1050.8	1057.8	1069.9	1090.3	1089.9
142.5°	1085.4	1091.5	1103.9	1120.4	1119.3
145°	1121.2	1120.3	1136.6	1147.7	1146.6
147.5°	1152.9	1150.1	1166.4	1171.9	1170.3
150°	1183.7	1177.0	1192.3	1198.1	1193.3
152.5°	1209.6	1201.9	1216.4	1222.1	1215.4
155°	1234.6	1226.0	1237.5	1243.3	1235.6
157.5°	1254.8	1247.1	1255.7	1262.5	1254.8
160°	1272.1	1266.3	1272.1	1277.8	1271.1
162.5°	1287.5	1281.7	1286.5	1293.2	1284.6
165°	1300.9	1295.1	1298.0	1304.7	1298.0
167.5°	1311.5	1305.7	1308.6	1315.3	1306.7
170°	1320.1	1314.4	1316.3	1323.0	1314.4
172.5°	1325.9	1320.1	1322.0	1328.8	1320.1
175°	1330.7	1324.0	1325.9	1332.6	1323.0
177.5°	1332.6	1325.9	1326.8	1333.6	1324.9
180°	1327.8	1327.8	1327.8	1327.8	1327.8

(END OF REPORT)