

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: P1029579

Luminaire Tested: S122DIW-B485D970UB2750-4F0-XX-W2A-D1_3500K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029579
REPORT IS A COMBINATION OF REPORTS P986304 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_3500K
Description: Define 2 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

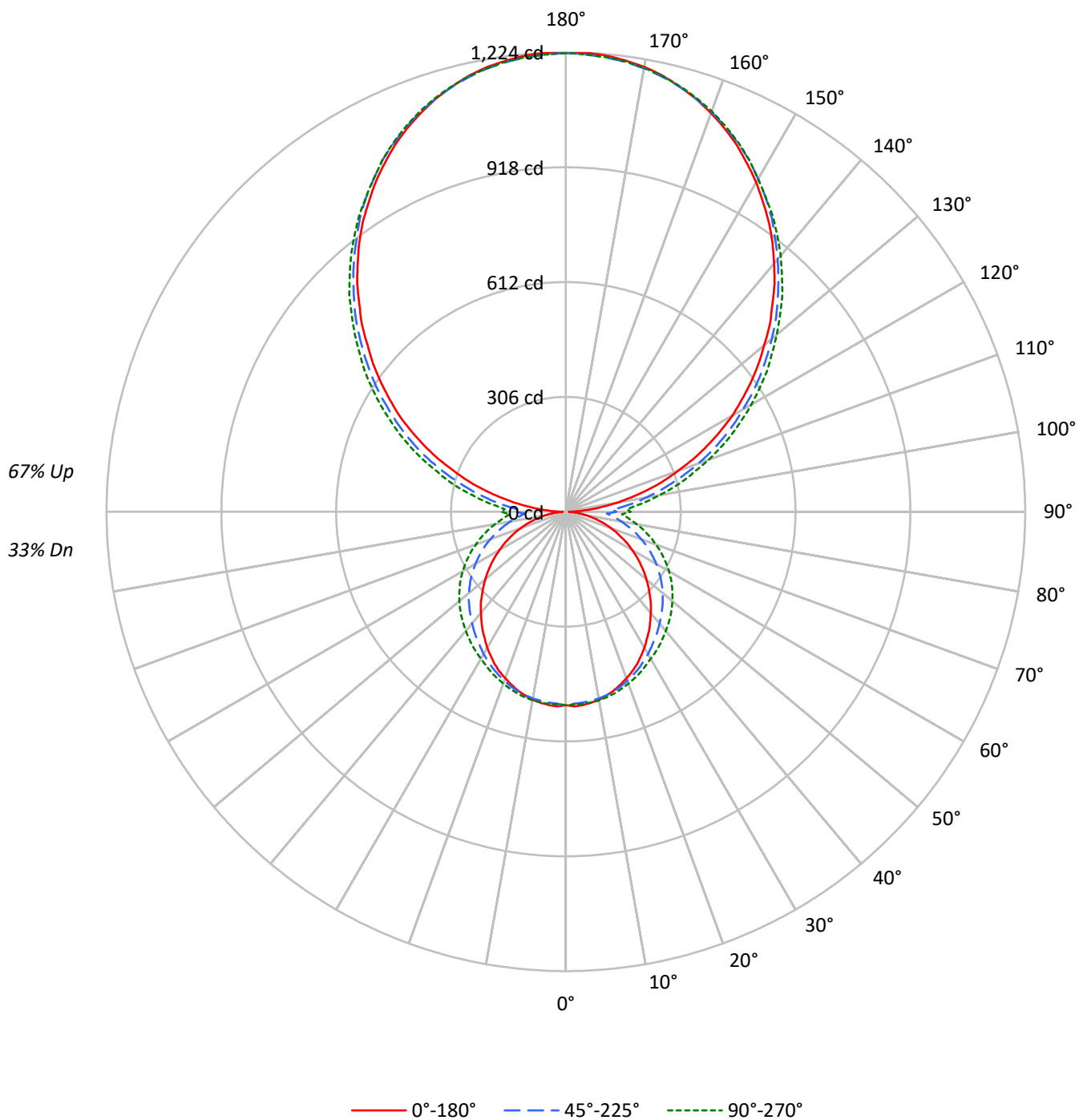
Lumens per Lamp: N/A
Luminaire Lumens: 5388.0 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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
RCR																	
0	103	103	103	103	93	93	93	93	74	74	74		56	56	56		40
1	93	88	84	80	83	79	76	73	63	60	58		48	46	45		34
2	84	76	70	65	75	69	63	59	55	51	47		41	39	36		29
3	76	67	59	53	68	60	54	49	48	43	39		36	33	30		26
4	70	59	51	45	62	53	46	41	42	37	33		32	29	26		23
5	64	52	44	38	57	47	40	35	37	32	28		29	25	22		20
6	59	47	38	33	52	42	35	30	34	28	24		26	22	19		18
7	54	42	34	28	48	38	31	26	30	25	21		23	19	17		17
8	50	38	30	25	45	34	28	23	28	22	19		21	17	15		15
9	46	34	27	22	42	31	25	20	25	20	17		19	16	13		14
10	43	31	24	20	39	29	22	18	23	18	15		18	14	12		13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8160	8160	8160
5°	8197	7812	7768
10°	8142	7541	7431
15°	8027	7262	7087
20°	7883	6968	6758
25°	7740	6686	6461
30°	7539	6400	6167
35°	7336	6125	5951
40°	7122	5886	5736
45°	6919	5670	5549
50°	6701	5470	5365
55°	6470	5260	5177
60°	6190	5039	4979
65°	5898	4784	4752
70°	5565	4513	4508
75°	5141	4240	4276
80°	4471	3958	4036
85°	3800	3690	3831

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 6919 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.9	0.9
10°-20°	140.2	2.6
20°-30°	212.4	3.9
30°-40°	258.6	4.8
40°-50°	278.2	5.2
50°-60°	270.2	5.0
60°-70°	236.0	4.4
70°-80°	181.6	3.4
80°-90°	125.1	2.3
90°-100°	159.5	3.0
100°-110°	301.7	5.6
110°-120°	451.8	8.4
120°-130°	563.5	10.5
130°-140°	616.7	11.4
140°-150°	597.1	11.1
150°-160°	499.5	9.3
160°-170°	331.3	6.1
170°-180°	115.8	2.1
0°-30°	401.4	7.4
0°-40°	660.0	12.2
0°-60°	1208.5	22.4
0°-90°	1751.2	32.5
90°-120°	913.0	16.9
90°-150°	2690.2	49.9
90°-180°	3637.0	67.5
0°-180°	5388.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	516	516	516	516	516	
5°	517	515	510	515	514	49
15°	493	495	495	501	501	139
25°	448	454	460	469	471	206
35°	386	399	413	430	435	241
45°	317	337	363	386	394	245
55°	243	270	309	336	345	217
65°	166	202	246	277	287	165
75°	92	134	182	214	223	97
85°	27	73	121	152	163	28
90°	8	64	135	162	173	9
95°	60	105	152	180	187	65
105°	226	250	291	319	328	238
115°	416	430	462	483	488	411
125°	602	611	632	649	655	538
135°	777	789	798	813	816	601
145°	943	950	956	962	961	589
155°	1078	1081	1084	1089	1086	496
165°	1173	1172	1172	1179	1174	331
175°	1220	1217	1215	1222	1216	116
180°	1222	1222	1222	1222	1222	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	515.5	515.5	515.5	515.5	515.5
2.5°	519.2	517.0	511.8	515.5	514.0
5°	517.0	514.8	510.3	514.8	514.0
7.5°	513.3	511.8	508.0	513.3	512.5
10°	508.8	507.3	505.0	511.0	510.3
12.5°	501.3	502.1	500.6	506.5	505.8
15°	493.1	494.6	494.6	501.3	500.6
17.5°	482.6	485.6	487.9	494.6	494.6
20°	472.2	475.9	478.9	487.1	487.1
22.5°	461.0	465.5	469.9	478.2	479.6
25°	448.3	453.5	460.2	469.2	471.4
27.5°	433.3	441.5	449.0	460.2	461.7
30°	418.4	428.1	437.8	449.8	452.0
32.5°	401.9	413.2	425.1	439.3	443.8
35°	386.3	399.0	413.2	429.6	434.8
37.5°	369.1	383.3	401.2	419.1	424.4
40°	351.9	368.3	388.5	407.9	414.6
42.5°	335.5	351.9	375.8	397.5	404.2
45°	316.8	336.9	363.1	386.3	393.7
47.5°	298.8	320.5	350.4	374.3	382.5
50°	280.2	303.3	336.9	362.4	370.6
52.5°	262.2	286.9	322.8	348.9	357.9
55°	242.8	269.7	308.6	335.5	345.2
57.5°	224.1	254.0	292.9	322.0	331.7
60°	204.0	236.1	278.7	307.1	317.5
62.5°	186.0	219.7	262.2	292.9	302.6
65°	165.9	202.5	246.5	277.2	286.9
67.5°	147.9	186.0	230.9	261.5	271.9
70°	128.5	167.4	213.7	245.8	254.8
72.5°	110.6	150.9	198.0	229.4	240.6
75°	91.9	133.7	181.5	213.7	223.4
77.5°	74.0	117.3	165.9	198.0	208.4
80°	56.0	101.6	150.2	181.5	192.0
82.5°	41.1	85.9	135.2	166.6	176.3
85°	26.9	73.2	121.0	152.4	162.9
87.5°	16.4	61.3	109.1	139.7	149.4
90°	8.5	64.2	134.7	162.5	172.6
92.5°	29.4	77.2	123.9	154.0	163.0
95°	59.6	105.1	151.9	180.3	187.3
97.5°	94.9	136.4	183.9	211.5	220.5
100°	136.2	172.2	217.1	244.8	251.9
102.5°	178.8	209.6	254.1	282.1	289.2
105°	225.5	250.3	291.2	319.4	327.6
107.5°	272.9	295.1	332.4	358.8	361.8
110°	317.6	338.7	375.3	399.2	404.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	367.1	385.2	418.6	439.4	445.5
115°	415.6	430.0	461.5	482.9	488.1
117.5°	463.3	477.5	503.8	523.1	527.5
120°	511.8	523.0	544.7	565.6	570.8
122.5°	556.1	567.3	589.7	606.8	611.4
125°	601.9	611.1	631.9	649.0	654.7
127.5°	647.2	657.8	673.9	688.4	692.0
130°	689.5	702.1	715.8	731.7	733.5
132.5°	737.0	746.5	758.8	770.8	773.7
135°	777.4	788.8	798.4	813.0	815.9
137.5°	822.8	832.1	838.0	851.2	852.2
140°	863.1	871.6	878.3	890.2	890.6
142.5°	904.3	912.9	916.0	926.0	925.6
145°	942.8	950.0	956.2	961.8	961.3
147.5°	977.9	987.2	991.3	994.1	992.2
150°	1014.0	1020.2	1024.3	1027.4	1024.3
152.5°	1046.0	1052.2	1057.3	1061.5	1057.3
155°	1078.0	1081.1	1084.1	1089.3	1086.2
157.5°	1105.8	1107.9	1109.9	1117.2	1112.0
160°	1130.6	1132.6	1133.7	1139.8	1135.7
162.5°	1153.3	1153.3	1154.3	1161.5	1156.4
165°	1172.9	1171.8	1171.8	1179.0	1173.9
167.5°	1190.4	1187.3	1187.3	1194.5	1189.4
170°	1203.8	1200.7	1199.7	1206.9	1200.7
172.5°	1213.1	1210.0	1209.0	1216.2	1210.0
175°	1220.3	1217.2	1215.2	1222.4	1216.2
177.5°	1224.4	1221.3	1219.3	1225.5	1219.3
180°	1222.4	1222.4	1222.4	1222.4	1222.4

(END OF REPORT)