

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: P1029583

Luminaire Tested: S122DIW-B485D970UB2750-4F0-XX-W2A-D_3000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029583
REPORT IS A COMBINATION OF REPORTS P986313 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_3000K
Description: Define 2 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

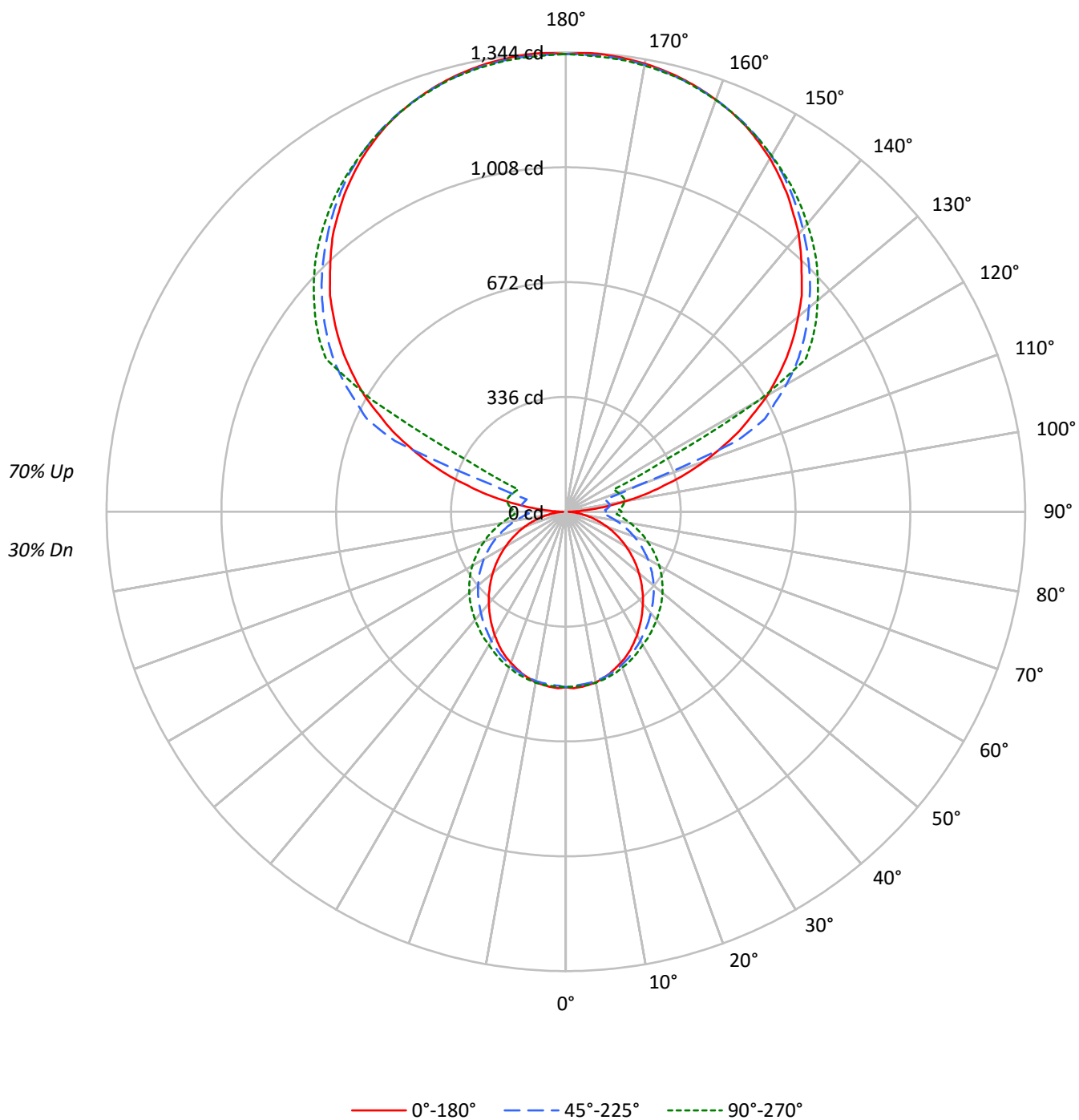
Lumens per Lamp: N/A
Luminaire Lumens: 5887.0 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8122	8122	8122
5°	8159	7775	7733
10°	8105	7506	7397
15°	7990	7228	7054
20°	7846	6935	6728
25°	7703	6655	6432
30°	7505	6371	6139
35°	7302	6097	5924
40°	7090	5859	5711
45°	6886	5643	5524
50°	6669	5445	5341
55°	6440	5234	5153
60°	6160	5015	4957
65°	5869	4763	4730
70°	5539	4492	4486
75°	5119	4221	4257
80°	4455	3940	4018
85°	3786	3674	3812

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6886 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.6	0.8
10°-20°	139.5	2.4
20°-30°	211.4	3.6
30°-40°	257.4	4.4
40°-50°	277.0	4.7
50°-60°	269.0	4.6
60°-70°	234.9	4.0
70°-80°	180.8	3.1
80°-90°	123.4	2.1
90°-100°	127.7	2.2
100°-110°	225.7	3.8
110°-120°	476.9	8.1
120°-130°	746.7	12.7
130°-140°	778.7	13.2
140°-150°	716.6	12.2
150°-160°	574.8	9.8
160°-170°	370.4	6.3
170°-180°	127.5	2.2
0°-30°	399.6	6.8
0°-40°	657.0	11.2
0°-60°	1202.9	20.4
0°-90°	1742.1	29.6
90°-120°	830.3	14.1
90°-150°	3072.2	52.2
90°-180°	4145.0	70.4
0°-180°	5887.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	513	513	513	513	513	
5°	515	512	508	512	512	49
15°	491	492	492	499	498	138
25°	446	451	458	467	469	205
35°	384	397	411	428	433	240
45°	315	335	361	384	392	243
55°	242	268	307	334	344	216
65°	165	202	245	276	286	164
75°	92	133	181	213	222	97
85°	27	73	120	152	162	28
90°	8	62	118	152	163	9
95°	69	72	123	156	164	79
105°	298	349	123	160	172	319
115°	560	585	643	216	155	551
125°	789	802	844	871	881	704
135°	976	991	1007	1033	1037	754
145°	1131	1130	1146	1158	1157	708
155°	1245	1237	1248	1254	1246	574
165°	1312	1306	1309	1316	1309	371
175°	1342	1336	1338	1344	1335	128
180°	1339	1339	1339	1339	1339	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	513.1	513.1	513.1	513.1	513.1
2.5°	516.9	514.6	509.4	513.1	511.7
5°	514.6	512.4	507.9	512.4	511.7
7.5°	510.9	509.4	505.7	510.9	510.2
10°	506.5	505.0	502.7	508.7	507.9
12.5°	499.0	499.8	498.3	504.2	503.5
15°	490.8	492.3	492.3	499.0	498.3
17.5°	480.4	483.4	485.6	492.3	492.3
20°	470.0	473.7	476.7	484.9	484.9
22.5°	458.9	463.3	467.8	476.0	477.5
25°	446.2	451.4	458.1	467.0	469.3
27.5°	431.3	439.5	447.0	458.1	459.6
30°	416.5	426.1	435.8	447.7	449.9
32.5°	400.1	411.3	423.2	437.3	441.8
35°	384.5	397.1	411.3	427.6	432.8
37.5°	367.4	381.5	399.4	417.2	422.4
40°	350.3	366.6	386.7	406.1	412.8
42.5°	333.9	350.3	374.1	395.6	402.3
45°	315.3	335.4	361.4	384.5	391.9
47.5°	297.5	319.0	348.8	372.6	380.8
50°	278.9	301.9	335.4	360.7	368.9
52.5°	261.0	285.6	321.3	347.3	356.2
55°	241.7	268.5	307.1	333.9	343.6
57.5°	223.1	252.9	291.5	320.5	330.2
60°	203.0	235.0	277.4	305.7	316.1
62.5°	185.2	218.6	261.0	291.5	301.2
65°	165.1	201.5	245.4	275.9	285.6
67.5°	147.3	185.2	229.8	260.3	270.7
70°	127.9	166.6	212.7	244.7	253.6
72.5°	110.1	150.2	197.1	228.3	239.5
75°	91.5	133.1	180.7	212.7	222.4
77.5°	73.6	116.8	165.1	197.1	207.5
80°	55.8	101.1	149.5	180.7	191.1
82.5°	40.9	85.5	134.6	165.8	175.5
85°	26.8	72.9	120.5	151.7	162.1
87.5°	16.4	61.0	108.6	139.1	148.7
90°	8.4	62.2	117.6	152.1	163.0
92.5°	30.9	66.5	114.8	145.7	155.6
95°	68.9	71.9	123.3	156.4	164.4
97.5°	118.6	71.1	129.7	160.1	170.1
100°	176.7	71.5	129.6	164.9	175.0
102.5°	240.0	262.6	126.4	163.7	174.8
105°	298.3	349.0	123.1	159.8	171.9
107.5°	367.1	409.3	119.9	155.7	167.8
110°	432.3	467.5	223.9	150.8	162.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	494.4	523.7	541.4	147.5	158.6
115°	560.3	585.0	642.6	216.2	154.6
117.5°	616.7	642.0	689.7	573.4	327.0
120°	680.6	698.2	745.4	777.8	655.2
122.5°	734.9	751.2	798.1	824.0	831.7
125°	789.4	802.0	844.3	871.1	880.7
127.5°	839.8	852.6	887.2	915.5	923.2
130°	887.3	902.0	928.4	956.9	961.9
132.5°	935.8	947.6	969.4	995.3	1000.3
135°	975.7	991.2	1007.4	1032.7	1036.7
137.5°	1018.3	1030.0	1043.5	1067.2	1069.5
140°	1060.0	1067.1	1079.2	1099.8	1099.4
142.5°	1094.9	1101.0	1113.6	1130.2	1129.1
145°	1131.0	1130.1	1146.5	1157.8	1156.7
147.5°	1163.0	1160.1	1176.6	1182.1	1180.5
150°	1194.0	1187.2	1202.7	1208.6	1203.7
152.5°	1220.2	1212.4	1227.0	1232.8	1226.0
155°	1245.4	1236.7	1248.3	1254.1	1246.4
157.5°	1265.7	1258.0	1266.7	1273.5	1265.7
160°	1283.2	1277.4	1283.2	1289.0	1282.2
162.5°	1298.7	1292.9	1297.7	1304.5	1295.8
165°	1312.3	1306.4	1309.4	1316.1	1309.4
167.5°	1322.9	1317.1	1320.0	1326.8	1318.1
170°	1331.6	1325.8	1327.8	1334.6	1325.8
172.5°	1337.5	1331.6	1333.6	1340.4	1331.6
175°	1342.3	1335.5	1337.5	1344.2	1334.6
177.5°	1344.2	1337.5	1338.4	1345.2	1336.5
180°	1339.4	1339.4	1339.4	1339.4	1339.4

(END OF REPORT)