

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: P1029578

Luminaire Tested: S122DIW-B485D970UB2750-4F0-XX-W2A-D1_3000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029578
REPORT IS A COMBINATION OF REPORTS P986303 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_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

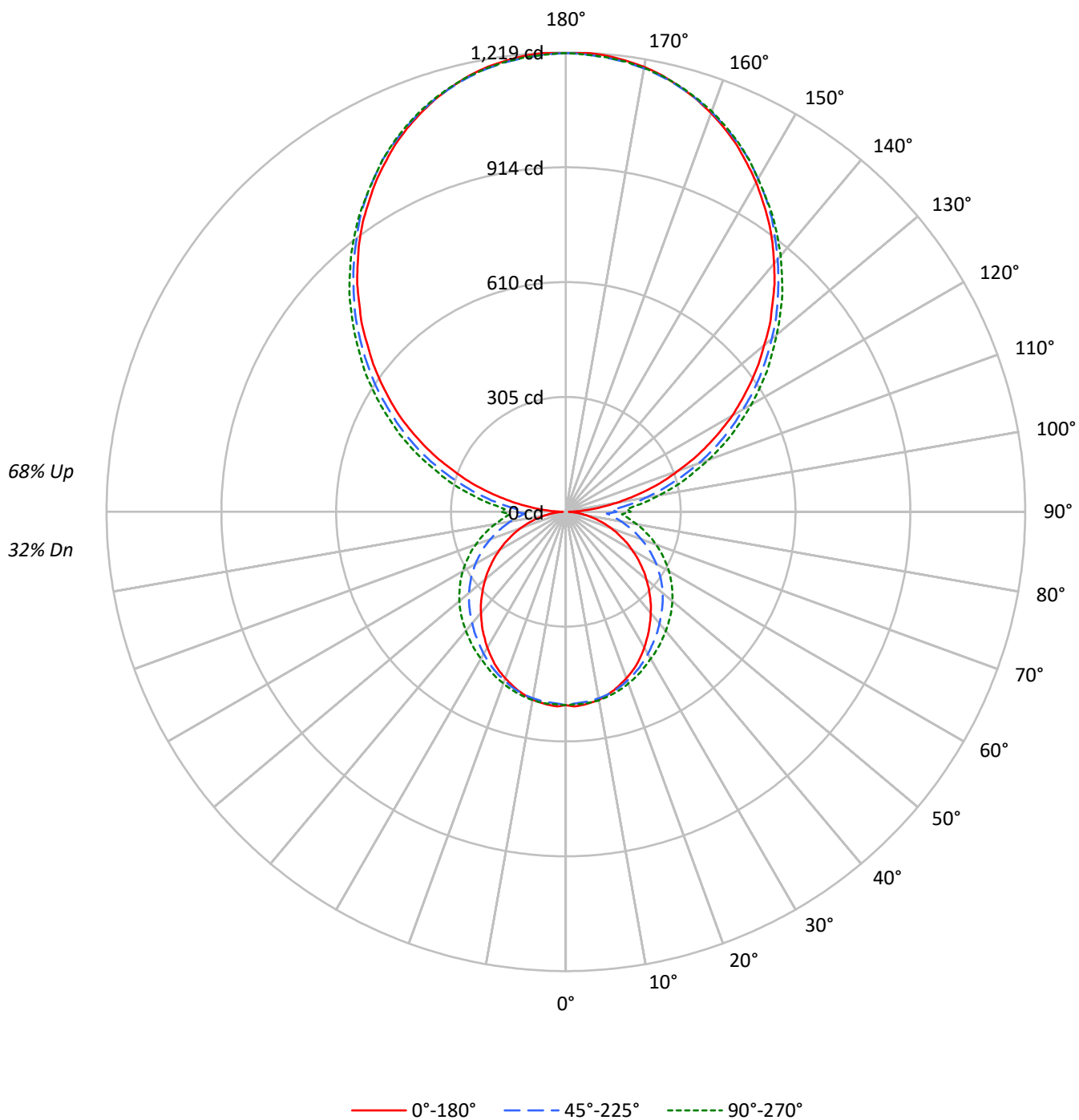
Lumens per Lamp: N/A
Luminaire Lumens: 5365.0 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

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	0.9
10°-20°	139.5	2.6
20°-30°	211.4	3.9
30°-40°	257.4	4.8
40°-50°	277.0	5.2
50°-60°	269.0	5.0
60°-70°	234.9	4.4
70°-80°	180.8	3.4
80°-90°	124.6	2.3
90°-100°	158.8	3.0
100°-110°	300.4	5.6
110°-120°	449.9	8.4
120°-130°	561.2	10.5
130°-140°	614.1	11.4
140°-150°	594.6	11.1
150°-160°	497.4	9.3
160°-170°	329.9	6.1
170°-180°	115.3	2.1
0°-30°	399.6	7.4
0°-40°	657.0	12.2
0°-60°	1202.9	22.4
0°-90°	1743.2	32.5
90°-120°	909.2	16.9
90°-150°	2679.1	49.9
90°-180°	3622.0	67.5
0°-180°	5365.0	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	64	134	162	172	9
95°	59	105	151	180	186	64
105°	225	249	290	318	326	237
115°	414	428	460	481	486	409
125°	599	609	629	646	652	536
135°	774	786	795	810	812	599
145°	939	946	952	958	957	587
155°	1074	1077	1080	1085	1082	494
165°	1168	1167	1167	1174	1169	329
175°	1215	1212	1210	1217	1211	115
180°	1217	1217	1217	1217	1217	

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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	64.0	134.2	161.8	171.7
92.5°	29.3	76.9	123.3	153.4	162.3
95°	59.3	104.6	151.2	179.5	186.4
97.5°	94.6	135.8	183.0	210.5	219.5
100°	135.7	171.4	216.2	243.7	250.8
102.5°	178.1	208.8	253.1	280.8	288.0
105°	224.6	249.3	290.0	318.1	326.3
107.5°	271.8	293.8	331.0	357.3	360.3
110°	316.3	337.3	373.8	397.6	402.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	365.6	383.7	416.9	437.6	443.7
115°	413.9	428.3	459.6	480.9	486.0
117.5°	461.4	475.6	501.7	520.9	525.3
120°	509.7	520.9	542.5	563.3	568.4
122.5°	553.9	564.9	587.3	604.3	609.0
125°	599.4	608.6	629.4	646.4	652.1
127.5°	644.6	655.1	671.1	685.6	689.2
130°	686.7	699.3	712.9	728.7	730.6
132.5°	734.0	743.4	755.7	767.6	770.6
135°	774.3	785.6	795.1	809.7	812.5
137.5°	819.5	828.7	834.6	847.6	848.7
140°	859.5	868.1	874.7	886.6	886.9
142.5°	900.6	909.2	912.3	922.2	921.8
145°	939.0	946.2	952.3	957.8	957.4
147.5°	973.9	983.1	987.3	990.0	988.2
150°	1009.9	1016.0	1020.1	1023.2	1020.1
152.5°	1041.7	1047.9	1053.0	1057.1	1053.0
155°	1073.5	1076.6	1079.7	1084.8	1081.8
157.5°	1101.3	1103.3	1105.4	1112.6	1107.4
160°	1125.9	1128.0	1129.0	1135.2	1131.1
162.5°	1148.5	1148.5	1149.6	1156.8	1151.6
165°	1168.1	1167.0	1167.0	1174.2	1169.1
167.5°	1185.5	1182.4	1182.4	1189.6	1184.5
170°	1198.9	1195.8	1194.8	1202.0	1195.8
172.5°	1208.1	1205.0	1204.0	1211.2	1205.0
175°	1215.3	1212.2	1210.2	1217.4	1211.2
177.5°	1219.4	1216.3	1214.3	1220.5	1214.3
180°	1217.4	1217.4	1217.4	1217.4	1217.4

(END OF REPORT)