

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: P1029289

Luminaire Tested: S122DIW-B1005D970UB2750-4F0-XX-W2A-D_3000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029289
REPORT IS A COMBINATION OF REPORTS P985413 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B1005D970UB2750-4F0-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

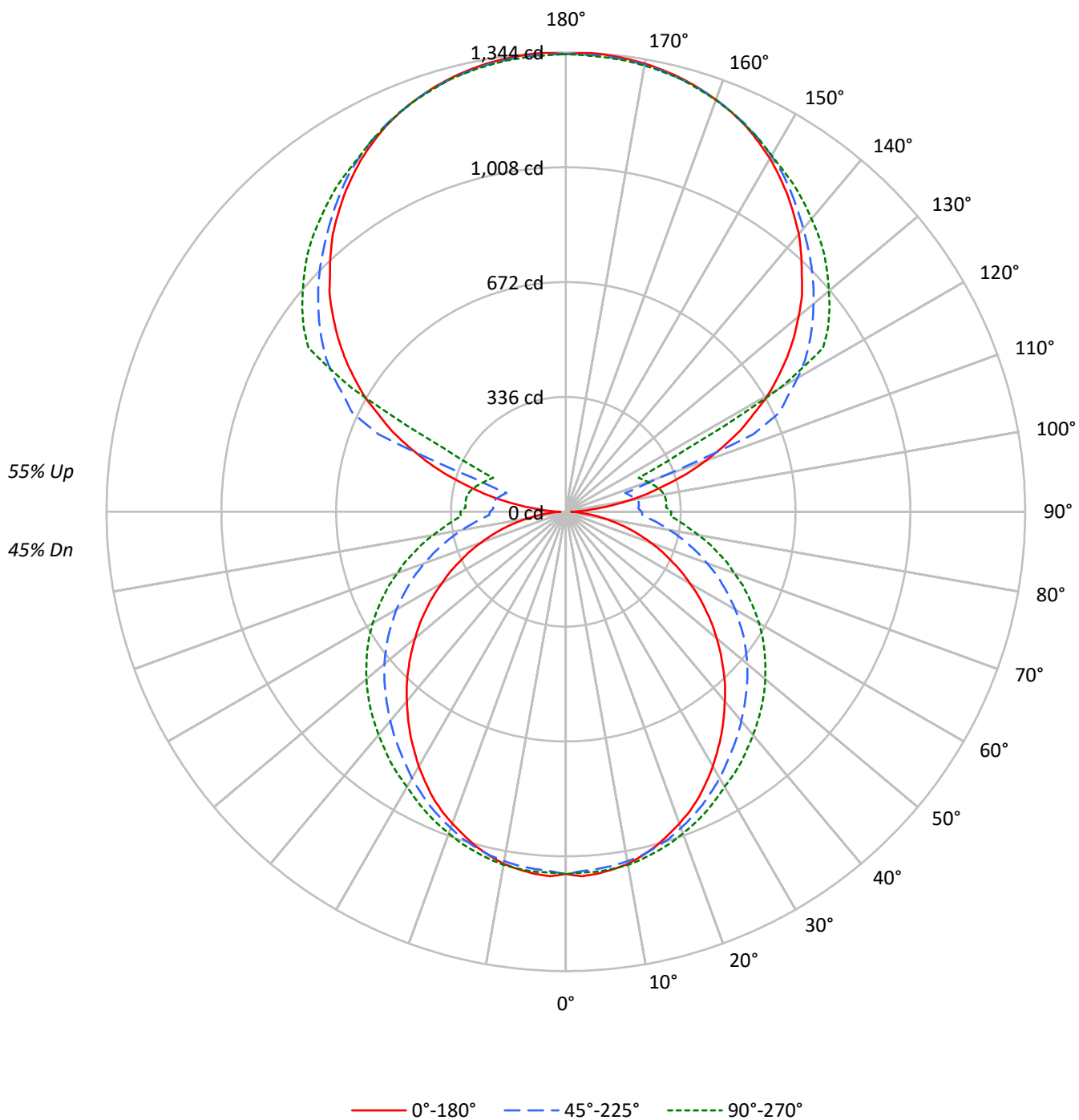
Lumens per Lamp: N/A
Luminaire Lumens: 7972.9 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 92.8
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	106	106	106	106	97	97	97	97	81	81	81	65	65	65	52	52	52			45
1	95	90	86	82	87	83	79	76	69	66	63	56	54	52	43	42	41			35
2	86	78	72	66	79	72	66	61	59	55	51	48	45	42	37	35	33			28
3	78	68	60	54	71	63	56	50	52	47	43	42	38	35	33	30	28			23
4	71	60	52	45	65	55	48	42	46	40	36	37	33	30	29	26	24			20
5	65	53	45	39	59	49	42	36	41	35	31	33	29	25	26	23	20			17
6	60	48	39	33	55	44	36	31	37	31	26	30	25	22	23	20	18			15
7	56	43	35	29	51	39	32	27	33	27	23	27	23	19	21	18	16			13
8	51	39	31	25	47	36	29	24	30	24	20	25	20	17	20	16	14			11
9	48	35	28	23	44	33	26	21	27	22	18	23	18	15	18	15	12			10
10	45	32	25	20	41	30	23	19	25	20	16	21	17	14	17	14	11			9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16776	16776	16776
5°	16852	16061	15970
10°	16739	15504	15278
15°	16503	14928	14568
20°	16206	14325	13895
25°	15911	13746	13284
30°	15499	13158	12680
35°	15081	12591	12236
40°	14643	12101	11794
45°	14224	11657	11410
50°	13774	11247	11030
55°	13302	10812	10643
60°	12723	10358	10237
65°	12122	9838	9768
70°	11442	9278	9266
75°	10567	8720	8791
80°	9197	8135	8300
85°	7811	7586	7873

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14224 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.5	1.3
10°-20°	288.2	3.6
20°-30°	436.6	5.5
30°-40°	531.7	6.7
40°-50°	572.0	7.2
50°-60°	555.5	7.0
60°-70°	485.2	6.1
70°-80°	373.4	4.7
80°-90°	252.4	3.2
90°-100°	216.7	2.7
100°-110°	290.6	3.6
110°-120°	519.8	6.5
120°-130°	770.6	9.7
130°-140°	788.7	9.9
140°-150°	718.3	9.0
150°-160°	574.8	7.2
160°-170°	370.4	4.6
170°-180°	127.5	1.6
0°-30°	825.2	10.4
0°-40°	1356.9	17.0
0°-60°	2484.5	31.2
0°-90°	3595.5	45.1
90°-120°	1027.2	12.9
90°-150°	3304.7	41.4
90°-180°	4377.0	54.9
0°-180°	7972.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1060	1060	1060	1060	1060	
5°	1063	1058	1049	1058	1057	101
15°	1014	1017	1017	1031	1029	286
25°	922	932	946	965	969	424
35°	794	820	849	883	894	496
45°	651	693	746	794	810	503
55°	499	554	634	690	710	447
65°	341	416	507	570	590	339
75°	189	275	373	439	459	200
85°	55	150	249	313	335	58
90°	16	116	222	288	309	14
95°	75	116	214	278	295	84
105°	302	376	191	256	276	324
115°	563	597	690	288	235	554
125°	791	804	871	919	936	706
135°	976	992	1016	1058	1068	755
145°	1131	1130	1146	1162	1165	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°	1059.8	1059.8	1059.8	1059.8	1059.8
2.5°	1067.5	1062.9	1052.2	1059.8	1056.8
5°	1062.9	1058.3	1049.1	1058.3	1056.8
7.5°	1055.2	1052.2	1044.5	1055.2	1053.7
10°	1046.0	1042.9	1038.3	1050.6	1049.1
12.5°	1030.7	1032.2	1029.1	1041.4	1039.9
15°	1013.8	1016.8	1016.8	1030.7	1029.1
17.5°	992.3	998.4	1003.0	1016.8	1016.8
20°	970.8	978.4	984.6	1001.5	1001.5
22.5°	947.7	956.9	966.1	983.0	986.1
25°	921.6	932.4	946.2	964.6	969.2
27.5°	890.9	907.8	923.1	946.2	949.3
30°	860.2	880.1	900.1	924.7	929.3
32.5°	826.4	849.4	874.0	903.2	912.4
35°	794.1	820.2	849.4	883.2	894.0
37.5°	758.8	788.0	824.8	861.7	872.5
40°	723.5	757.3	798.7	838.7	852.5
42.5°	689.7	723.5	772.6	817.2	831.0
45°	651.3	692.7	746.5	794.1	809.5
47.5°	614.4	658.9	720.4	769.5	786.4
50°	576.0	623.6	692.7	745.0	761.9
52.5°	539.1	589.8	663.6	717.3	735.7
55°	499.2	554.5	634.4	689.7	709.6
57.5°	460.8	522.2	602.1	662.0	682.0
60°	419.3	485.4	572.9	631.3	652.8
62.5°	382.5	451.6	539.1	602.1	622.1
65°	341.0	416.3	506.9	569.9	589.8
67.5°	304.1	382.5	474.6	537.6	559.1
70°	264.2	344.1	439.3	505.3	523.8
72.5°	227.3	310.3	407.0	471.6	494.6
75°	188.9	274.9	373.3	439.3	459.3
77.5°	152.1	241.2	341.0	407.0	428.5
80°	115.2	208.9	308.7	373.3	394.8
82.5°	84.5	176.6	278.0	342.5	362.5
85°	55.3	150.5	248.8	313.3	334.8
87.5°	33.8	126.0	224.3	287.2	307.2
90°	16.4	116.0	222.2	288.4	308.8
92.5°	38.0	115.6	212.2	274.0	293.5
95°	75.3	115.5	214.4	277.6	295.1
97.5°	124.2	110.7	215.3	275.0	294.5
100°	182.3	106.4	208.8	273.4	292.2
102.5°	244.7	293.5	200.0	265.9	285.7
105°	302.3	375.9	191.2	255.7	276.5
107.5°	371.1	432.2	182.4	245.3	266.1
110°	435.4	486.6	281.7	234.0	254.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	497.5	539.5	593.7	225.1	244.9
115°	563.4	596.8	690.2	287.5	234.6
117.5°	619.1	650.7	731.7	639.2	400.6
120°	683.0	703.8	782.6	837.2	723.3
122.5°	737.3	754.3	830.6	877.8	892.7
125°	791.0	803.6	871.2	919.4	936.1
127.5°	841.4	853.4	909.4	957.5	972.3
130°	888.9	902.8	945.8	993.4	1004.6
132.5°	937.4	948.4	982.1	1026.2	1037.5
135°	976.5	992.0	1016.1	1058.1	1068.4
137.5°	1019.1	1030.8	1048.2	1087.0	1094.9
140°	1060.8	1067.1	1080.8	1114.0	1118.5
142.5°	1095.7	1101.0	1113.6	1139.7	1142.6
145°	1131.0	1130.1	1146.5	1162.5	1165.4
147.5°	1163.0	1160.1	1176.6	1182.9	1183.6
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)