

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: P1031857

Luminaire Tested: S123DIW-B775D1030UB35-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1031857
REPORT IS A COMBINATION OF REPORTS P991885 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIW-B775D1030UB35-4F0-XX-W2A-F1
Description: Define 3 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

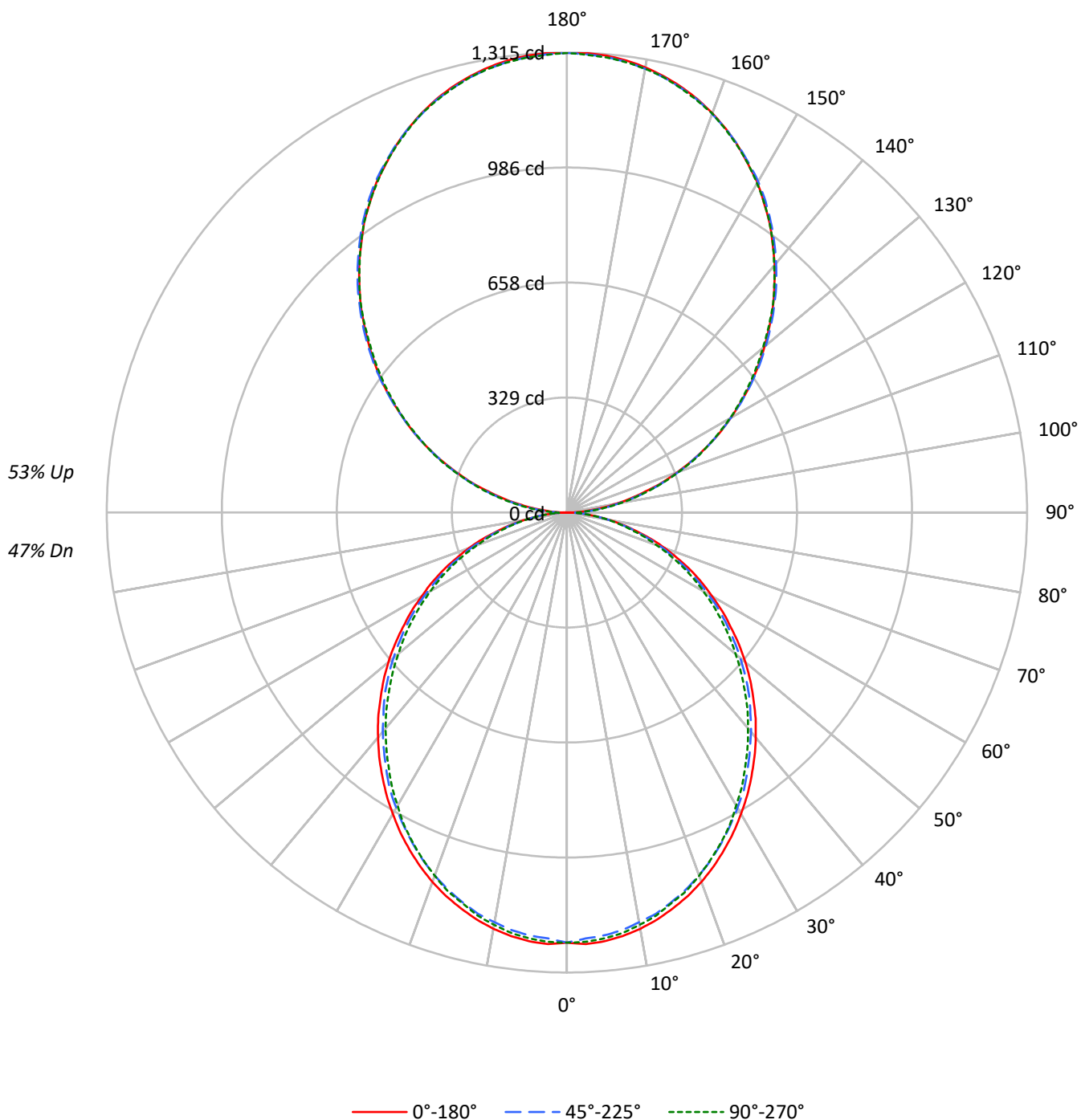
Lumens per Lamp: N/A
Luminaire Lumens: 6843.0 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 67.4
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	98	98	98	98	82	82	82	67	67	67	53	53	53			47
1	97	93	89	85	89	85	82	79	71	69	67	59	57	55	47	46	45			39
2	88	81	75	70	81	75	69	65	63	59	55	51	49	46	41	39	38			33
3	81	71	64	58	74	66	59	54	55	50	46	45	42	39	37	34	32			28
4	74	63	55	49	67	58	51	46	49	44	40	40	37	33	33	30	28			24
5	68	56	48	42	62	52	45	39	44	38	34	36	32	29	29	26	24			21
6	62	50	42	36	57	46	39	34	39	34	30	33	29	25	27	24	21			18
7	58	45	37	32	53	42	35	30	36	30	26	30	26	22	24	21	19			16
8	53	41	33	28	49	38	31	26	33	27	23	27	23	20	22	19	17			14
9	50	37	30	25	46	35	28	24	30	24	21	25	21	18	21	17	15			13
10	46	34	27	22	43	32	25	21	27	22	19	23	19	16	19	16	14			12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13235	13235	13235
5°	13268	12778	12759
10°	13150	12346	12219
15°	12967	11895	11631
20°	12757	11396	11047
25°	12486	10870	10424
30°	12190	10325	9768
35°	11879	9767	9117
40°	11552	9183	8475
45°	11195	8612	7806
50°	10832	7977	7134
55°	10364	7316	6452
60°	9882	6586	5728
65°	9430	5797	4971
70°	8779	4922	4090
75°	7844	3897	3175
80°	6775	2739	2245
85°	5283	1473	1124

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11195 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.9	1.7
10°-20°	327.3	4.8
20°-30°	483.4	7.1
30°-40°	564.6	8.3
40°-50°	567.5	8.3
50°-60°	498.6	7.3
60°-70°	371.3	5.4
70°-80°	211.3	3.1
80°-90°	62.9	0.9
90°-100°	84.6	1.2
100°-110°	256.0	3.7
110°-120°	435.8	6.4
120°-130°	573.3	8.4
130°-140°	644.4	9.4
140°-150°	633.5	9.3
150°-160°	533.3	7.8
160°-170°	355.1	5.2
170°-180°	124.3	1.8
0°-30°	926.6	13.5
0°-40°	1491.2	21.8
0°-60°	2557.3	37.4
0°-90°	3202.8	46.8
90°-120°	776.3	11.3
90°-150°	2627.5	38.4
90°-180°	3640.0	53.2
0°-180°	6843.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1230	1230	1230	1230	1230	
5°	1231	1225	1214	1224	1222	117
15°	1171	1167	1153	1162	1156	330
25°	1064	1057	1044	1044	1041	490
35°	920	913	900	893	888	575
45°	754	750	736	723	718	582
55°	572	571	557	546	540	512
65°	390	385	374	366	363	385
75°	206	202	199	194	190	220
85°	55	53	53	51	51	59
90°	1	11	25	29	31	8
95°	61	68	76	80	80	67
105°	232	234	244	244	246	249
115°	439	442	440	441	440	434
125°	642	645	643	639	635	572
135°	833	839	838	834	832	642
145°	1010	1012	1016	1014	1010	631
155°	1157	1157	1158	1162	1155	533
165°	1260	1257	1257	1263	1256	355
175°	1311	1306	1306	1313	1306	125
180°	1314	1314	1314	1314	1314	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1229.6	1229.6	1229.6	1229.6	1229.6
2.5°	1234.8	1230.6	1219.0	1229.6	1228.5
5°	1230.6	1225.3	1213.7	1224.3	1222.2
7.5°	1221.1	1215.8	1204.2	1213.7	1212.6
10°	1208.4	1203.1	1189.4	1198.9	1196.8
12.5°	1191.5	1187.3	1174.6	1180.9	1179.9
15°	1171.4	1167.2	1153.4	1161.9	1155.6
17.5°	1149.2	1143.9	1130.2	1136.5	1134.4
20°	1123.8	1117.5	1103.7	1108.0	1104.8
22.5°	1095.3	1088.9	1075.2	1078.4	1074.1
25°	1063.6	1057.2	1043.5	1044.5	1041.4
27.5°	1030.8	1024.5	1009.7	1010.7	1007.5
30°	994.9	989.6	974.8	974.8	967.4
32.5°	958.9	951.5	940.9	933.5	930.4
35°	919.8	913.4	899.7	893.4	888.1
37.5°	880.7	872.2	858.5	851.1	847.9
40°	839.4	833.1	818.3	809.8	805.6
42.5°	798.2	790.8	776.0	767.5	763.3
45°	753.8	749.6	735.8	723.1	717.9
47.5°	710.5	704.1	691.4	678.7	674.5
50°	666.1	660.8	647.0	635.4	629.1
52.5°	619.5	616.4	601.6	592.0	585.7
55°	572.0	570.9	557.2	545.5	540.2
57.5°	527.6	523.3	512.8	502.2	495.8
60°	478.9	477.9	465.2	455.7	450.4
62.5°	435.6	432.4	419.7	410.2	407.0
65°	390.1	384.8	374.3	365.8	362.6
67.5°	341.5	337.3	328.8	321.4	317.2
70°	298.1	291.8	285.5	278.1	272.8
72.5°	252.7	248.4	241.0	234.7	232.6
75°	206.2	201.9	198.8	193.5	190.3
77.5°	164.9	162.8	158.6	154.4	154.4
80°	124.8	121.6	119.5	118.4	118.4
82.5°	85.6	85.6	85.6	83.5	82.5
85°	55.0	52.9	52.9	50.7	50.7
87.5°	27.5	24.3	23.3	22.2	22.2
90°	1.0	11.4	24.8	28.9	31.0
92.5°	31.0	37.2	43.3	46.4	44.4
95°	60.9	68.1	76.4	80.5	80.5
97.5°	100.1	105.3	111.5	116.6	115.6
100°	140.4	146.5	151.7	154.8	156.9
102.5°	186.8	189.9	197.1	200.2	199.2
105°	232.2	234.3	243.6	243.6	245.6
107.5°	285.9	286.9	291.0	294.1	293.1
110°	335.4	337.5	339.5	343.7	341.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	387.0	388.0	388.0	393.2	393.2
115°	438.6	441.7	439.6	440.7	439.6
117.5°	491.2	492.3	490.2	490.2	487.1
120°	539.8	545.9	540.8	539.8	537.7
122.5°	590.3	594.4	592.4	589.3	586.2
125°	641.9	645.0	643.0	638.8	634.7
127.5°	689.4	695.6	693.5	687.3	683.2
130°	736.9	745.1	742.0	737.9	730.7
132.5°	784.3	792.6	790.5	785.4	780.2
135°	832.8	839.0	838.0	833.9	831.8
137.5°	877.2	882.4	885.5	880.3	877.2
140°	923.7	928.8	929.9	928.8	921.6
142.5°	966.0	971.1	973.2	972.2	967.0
145°	1010.4	1012.4	1015.5	1014.5	1010.4
147.5°	1048.5	1052.7	1055.8	1055.8	1049.6
150°	1088.8	1090.9	1092.9	1092.9	1086.7
152.5°	1121.8	1124.9	1125.9	1128.0	1122.8
155°	1156.9	1156.9	1157.9	1162.1	1154.8
157.5°	1186.8	1185.8	1186.8	1191.0	1184.8
160°	1214.7	1212.6	1212.6	1217.8	1213.7
162.5°	1239.5	1236.4	1237.4	1242.6	1235.3
165°	1260.1	1257.0	1257.0	1263.2	1256.0
167.5°	1277.7	1273.5	1274.6	1280.7	1274.6
170°	1292.1	1288.0	1288.0	1295.2	1288.0
172.5°	1303.5	1299.3	1299.3	1305.5	1298.3
175°	1310.7	1306.5	1306.5	1312.7	1305.5
177.5°	1314.8	1310.7	1310.7	1316.9	1309.6
180°	1313.8	1313.8	1313.8	1313.8	1313.8

(END OF REPORT)