

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: P1031222

Luminaire Tested: S123RDIW-B775D1030UB2750-4F0-XX-W2A-F_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1031222
REPORT IS A COMBINATION OF REPORTS P994616 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIW-B775D1030UB2750-4F0-XX-W2A-F_3500K
Description: Define 3 Regressed Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

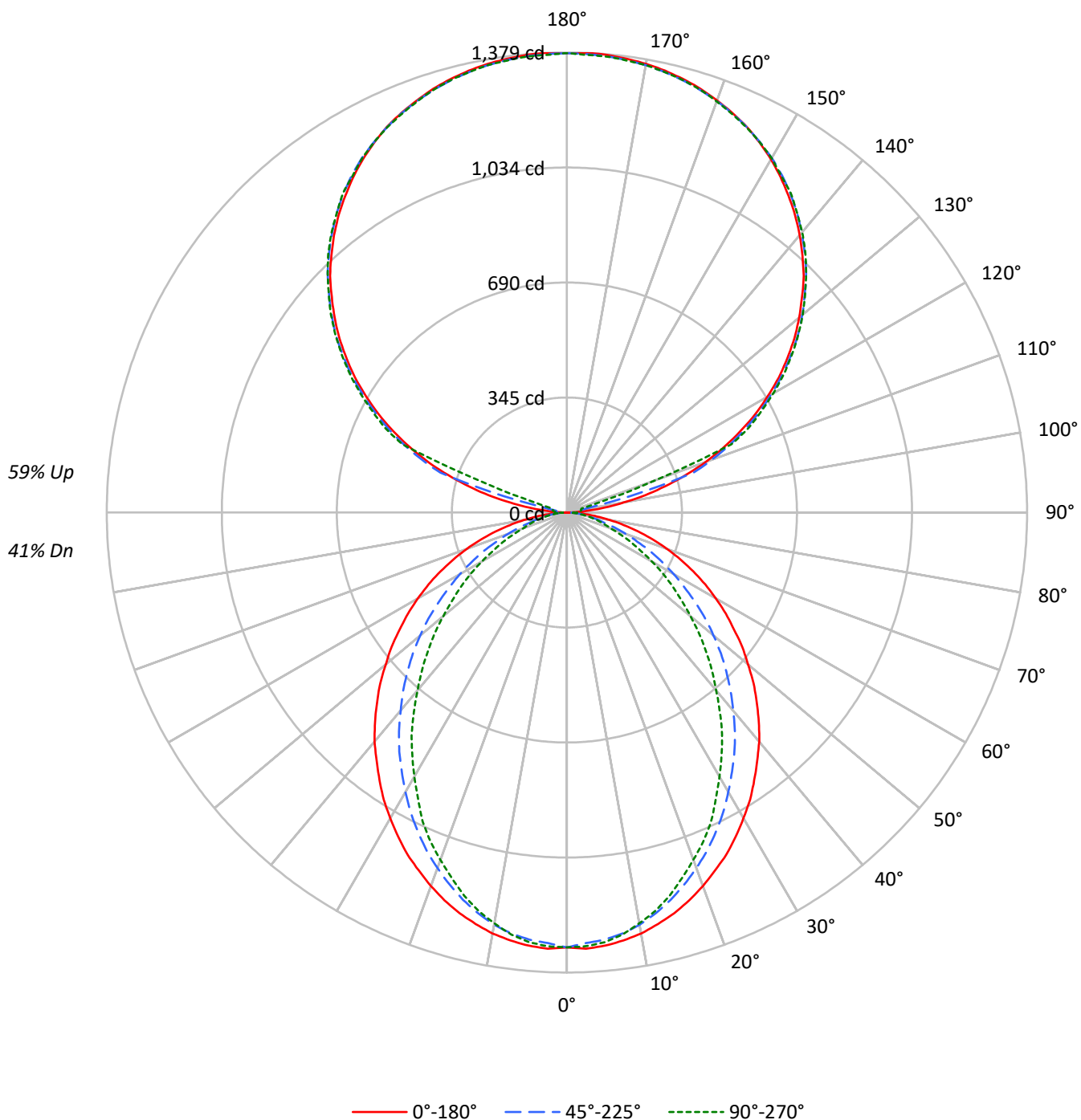
Lumens per Lamp: N/A
Luminaire Lumens: 7146.0 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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
RCR																	
0	105	105	105	105	96	96	96	96	78	78	78	63	63	63	48	48	48
1	96	92	88	85	88	84	81	78	69	67	65	55	54	53	43	42	41
2	88	81	75	70	80	74	69	64	61	57	54	49	47	44	38	36	35
3	80	71	64	58	73	65	59	54	54	49	46	44	40	38	34	32	30
4	73	63	55	49	67	58	51	46	48	43	39	39	35	33	30	28	26
5	67	56	48	42	61	52	45	40	43	38	34	35	31	28	28	25	23
6	62	50	43	37	57	46	39	34	39	34	30	32	28	25	25	22	20
7	57	46	38	32	52	42	35	30	35	30	26	29	25	22	23	20	18
8	53	41	34	29	49	38	31	27	32	27	23	26	23	20	21	18	16
9	50	38	30	25	45	35	28	24	29	24	21	24	20	18	20	17	15
10	46	35	28	23	42	32	26	21	27	22	19	22	19	16	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14032	14032	14032
5°	14055	13535	13499
10°	13944	13026	12769
15°	13763	12397	11971
20°	13525	11713	11079
25°	13280	11002	10233
30°	12967	10246	9234
35°	12643	9503	8324
40°	12338	8697	7319
45°	11949	7908	6414
50°	11518	7065	5479
55°	11073	6164	4621
60°	10645	5239	3752
65°	10095	4290	2928
70°	9403	3244	2093
75°	8407	2197	1658
80°	7177	1527	1163
85°	5379	824	610

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11949 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.5	1.7
10°-20°	340.9	4.8
20°-30°	490.8	6.9
30°-40°	552.8	7.7
40°-50°	528.7	7.4
50°-60°	432.8	6.1
60°-70°	291.8	4.1
70°-80°	146.4	2.0
80°-90°	41.0	0.6
90°-100°	48.6	0.7
100°-110°	234.8	3.3
110°-120°	575.4	8.1
120°-130°	730.4	10.2
130°-140°	780.3	10.9
140°-150°	729.6	10.2
150°-160°	588.5	8.2
160°-170°	379.8	5.3
170°-180°	130.9	1.8
0°-30°	954.3	13.4
0°-40°	1507.0	21.1
0°-60°	2468.6	34.5
0°-90°	2947.8	41.3
90°-120°	858.7	12.0
90°-150°	3099.0	43.4
90°-180°	4198.0	58.7
0°-180°	7146.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1304	1304	1304	1304	1304	
5°	1304	1298	1286	1295	1293	124
15°	1243	1232	1202	1197	1189	350
25°	1131	1105	1056	1034	1022	520
35°	979	941	875	830	811	613
45°	805	757	676	615	590	621
55°	611	559	469	408	387	548
65°	418	360	277	225	214	413
75°	221	170	112	102	99	235
85°	56	33	30	28	28	61
90°	1	11	25	29	31	7
95°	62	20	32	39	39	75
105°	305	316	224	43	45	323
115°	572	578	587	598	602	565
125°	806	814	818	820	823	720
135°	1004	1010	1014	1017	1014	773
145°	1158	1165	1167	1169	1169	725
155°	1276	1274	1275	1280	1274	588
165°	1345	1342	1341	1350	1342	380
175°	1377	1372	1373	1380	1372	131
180°	1377	1377	1377	1377	1377	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1303.6	1303.6	1303.6	1303.6	1303.6
2.5°	1308.9	1304.6	1291.9	1303.6	1301.5
5°	1303.6	1298.3	1285.6	1295.1	1293.0
7.5°	1294.1	1288.8	1272.9	1279.3	1276.1
10°	1281.4	1274.0	1254.9	1256.0	1250.7
12.5°	1263.4	1254.9	1230.6	1229.6	1223.2
15°	1243.3	1231.7	1202.1	1196.8	1189.4
17.5°	1219.0	1206.3	1169.3	1158.7	1148.2
20°	1191.5	1174.6	1134.4	1120.7	1108.0
22.5°	1160.8	1140.8	1097.4	1079.4	1067.8
25°	1131.2	1104.8	1056.2	1034.0	1022.3
27.5°	1095.3	1066.8	1013.9	984.3	966.3
30°	1058.3	1026.6	967.4	931.4	914.5
32.5°	1021.3	984.3	920.9	880.7	862.7
35°	979.0	940.9	875.4	829.9	810.9
37.5°	936.7	895.5	826.8	776.0	752.8
40°	896.5	850.0	775.0	720.0	695.7
42.5°	851.1	804.6	726.3	665.0	643.9
45°	804.6	757.0	675.6	615.3	589.9
47.5°	759.1	706.2	625.9	560.3	538.1
50°	708.3	658.7	573.0	507.5	483.2
52.5°	662.9	607.9	523.3	454.6	433.5
55°	611.1	559.3	469.4	408.1	386.9
57.5°	564.6	508.5	417.6	359.5	341.5
60°	515.9	457.8	370.0	312.9	295.0
62.5°	467.3	409.2	321.4	268.5	249.5
65°	417.6	359.5	277.0	225.2	213.6
67.5°	367.9	308.7	228.4	189.2	176.6
70°	319.3	262.2	188.2	151.2	139.6
72.5°	270.7	214.6	149.1	120.5	117.4
75°	221.0	170.2	112.1	101.5	99.4
77.5°	175.5	129.0	87.8	81.4	79.3
80°	132.2	88.8	66.6	63.4	61.3
82.5°	90.9	55.0	47.6	44.4	44.4
85°	56.0	32.8	29.6	27.5	27.5
87.5°	25.4	13.7	13.7	12.7	11.6
90°	1.0	11.3	24.6	28.6	30.7
92.5°	23.5	17.4	26.6	33.8	34.8
95°	62.4	20.5	31.7	38.9	38.9
97.5°	113.6	84.9	32.7	40.9	41.9
100°	172.9	193.4	33.8	41.9	43.0
102.5°	240.4	253.7	75.7	41.9	44.0
105°	304.9	316.1	224.1	43.0	45.0
107.5°	373.4	382.6	398.0	240.4	106.4
110°	442.0	450.2	461.4	427.7	281.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	507.5	514.6	525.9	535.1	533.0
115°	571.9	578.1	587.3	597.5	601.6
117.5°	635.4	642.5	647.6	655.8	656.8
120°	693.7	702.9	706.0	714.1	714.1
122.5°	753.0	760.2	764.3	769.4	770.4
125°	806.2	814.4	818.5	820.5	822.6
127.5°	859.4	867.6	872.7	875.8	873.7
130°	908.5	916.7	920.8	924.9	922.9
132.5°	955.6	963.8	966.8	970.9	967.9
135°	1003.7	1009.8	1013.9	1017.0	1013.9
137.5°	1044.6	1052.8	1054.8	1059.9	1057.9
140°	1085.5	1091.7	1094.7	1098.8	1096.8
142.5°	1123.4	1129.5	1132.6	1135.7	1132.6
145°	1158.2	1165.3	1167.4	1169.4	1169.4
147.5°	1191.9	1197.0	1199.1	1201.1	1196.0
150°	1222.6	1225.7	1227.7	1229.8	1226.7
152.5°	1250.2	1251.3	1252.3	1256.4	1251.3
155°	1275.8	1273.8	1274.8	1279.9	1273.8
157.5°	1296.3	1296.3	1295.3	1301.4	1293.2
160°	1314.7	1313.7	1312.7	1318.8	1311.6
162.5°	1332.1	1329.0	1328.0	1335.2	1329.0
165°	1345.4	1342.3	1341.3	1349.5	1342.3
167.5°	1356.7	1352.6	1352.6	1360.7	1352.6
170°	1365.9	1361.8	1361.8	1370.0	1361.8
172.5°	1372.0	1366.9	1367.9	1376.1	1366.9
175°	1377.1	1372.0	1373.0	1380.2	1372.0
177.5°	1379.2	1374.0	1375.1	1383.3	1373.0
180°	1377.1	1377.1	1377.1	1377.1	1377.1

(END OF REPORT)