

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: P1032375

Luminaire Tested: S123RDIW-B775D1030UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1032375
REPORT IS A COMBINATION OF REPORTS P994623 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIW-B775D1030UB30-4F0-XX-W2A-F1
Description: Define 3 Regressed Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

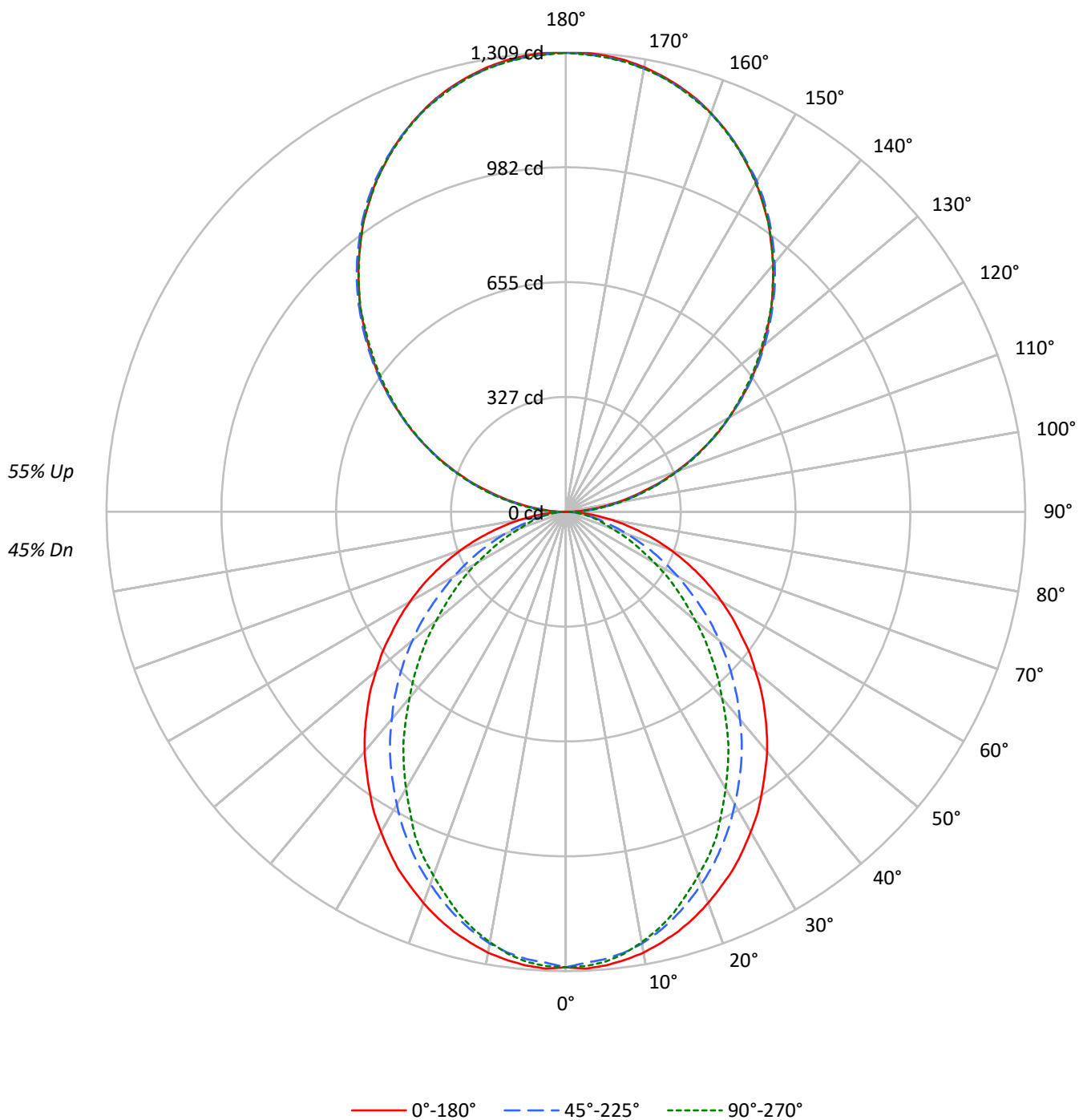
Lumens per Lamp: N/A
Luminaire Lumens: 6559.0 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51
1	97	93	89	86	89	85	82	79	71	69	67	58	56	55	46	45	44
2	88	81	75	70	81	75	70	65	62	59	56	51	49	46	41	39	37
3	81	72	65	59	74	66	60	55	55	51	47	45	42	39	36	34	32
4	74	64	56	50	68	59	52	47	49	44	40	41	37	34	33	30	28
5	68	57	49	43	62	52	45	40	44	39	35	37	33	30	29	27	24
6	63	51	43	37	57	47	40	35	40	35	30	33	29	26	27	24	22
7	58	46	38	33	53	43	36	31	36	31	27	30	26	23	25	22	19
8	54	42	34	29	49	39	32	27	33	28	24	28	24	21	23	20	17
9	50	38	31	26	46	35	29	24	30	25	21	25	21	19	21	18	16
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13969	13969	13969
5°	13992	13475	13439
10°	13882	12969	12713
15°	13702	12343	11918
20°	13465	11661	11030
25°	13221	10953	10188
30°	12909	10201	9194
35°	12588	9461	8287
40°	12284	8657	7286
45°	11896	7873	6386
50°	11467	7034	5455
55°	11024	6136	4601
60°	10600	5216	3735
65°	10051	4272	2915
70°	9362	3230	2083
75°	8369	2188	1650
80°	7145	1520	1157
85°	5360	821	607

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11896 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.0	1.9
10°-20°	339.4	5.2
20°-30°	488.7	7.5
30°-40°	550.3	8.4
40°-50°	526.4	8.0
50°-60°	430.9	6.6
60°-70°	290.5	4.4
70°-80°	145.7	2.2
80°-90°	40.9	0.6
90°-100°	84.2	1.3
100°-110°	254.8	3.9
110°-120°	433.9	6.6
120°-130°	570.8	8.7
130°-140°	641.6	9.8
140°-150°	630.7	9.6
150°-160°	531.0	8.1
160°-170°	353.5	5.4
170°-180°	123.8	1.9
0°-30°	950.1	14.5
0°-40°	1500.4	22.9
0°-60°	2457.7	37.5
0°-90°	2934.8	44.7
90°-120°	772.9	11.8
90°-150°	2615.9	39.9
90°-180°	3624.0	55.3
0°-180°	6559.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1298	1298	1298	1298	1298	
5°	1298	1293	1280	1289	1287	123
15°	1238	1226	1197	1192	1184	349
25°	1126	1100	1052	1029	1018	518
35°	975	937	872	826	807	610
45°	801	754	673	613	587	618
55°	608	557	467	406	385	546
65°	416	358	276	224	213	411
75°	220	170	112	101	99	234
85°	56	33	30	27	27	61
90°	1	11	25	29	31	8
95°	61	68	76	80	80	67
105°	231	233	242	242	244	247
115°	437	440	438	439	438	432
125°	639	642	640	636	632	570
135°	829	835	834	830	828	639
145°	1006	1008	1011	1010	1006	628
155°	1152	1152	1153	1157	1150	530
165°	1255	1252	1252	1258	1250	354
175°	1305	1301	1301	1307	1300	124
180°	1308	1308	1308	1308	1308	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1297.8	1297.8	1297.8	1297.8	1297.8
2.5°	1303.1	1298.9	1286.2	1297.8	1295.7
5°	1297.8	1292.6	1279.9	1289.4	1287.3
7.5°	1288.3	1283.1	1267.3	1273.6	1270.5
10°	1275.7	1268.3	1249.4	1250.5	1245.2
12.5°	1257.8	1249.4	1225.2	1224.1	1217.8
15°	1237.8	1226.2	1196.8	1191.5	1184.1
17.5°	1213.6	1201.0	1164.1	1153.6	1143.1
20°	1186.2	1169.4	1129.4	1115.7	1103.1
22.5°	1155.7	1135.7	1092.6	1074.7	1063.1
25°	1126.2	1099.9	1051.5	1029.4	1017.8
27.5°	1090.5	1062.0	1009.4	979.9	962.0
30°	1053.6	1022.0	963.1	927.3	910.5
32.5°	1016.8	979.9	916.8	876.8	858.9
35°	974.7	936.8	871.5	826.3	807.3
37.5°	932.6	891.5	823.1	772.6	749.4
40°	892.6	846.3	771.5	716.8	692.6
42.5°	847.3	801.0	723.1	662.1	641.0
45°	801.0	753.6	672.6	612.6	587.3
47.5°	755.7	703.1	623.1	557.9	535.8
50°	705.2	655.8	570.5	505.2	481.0
52.5°	660.0	605.2	521.0	452.6	431.6
55°	608.4	556.8	467.3	406.3	385.2
57.5°	562.1	506.3	415.8	357.9	340.0
60°	513.7	455.8	368.4	311.6	293.7
62.5°	465.2	407.3	320.0	267.4	248.4
65°	415.8	357.9	275.8	224.2	212.6
67.5°	366.3	307.4	227.4	188.4	175.8
70°	317.9	261.0	187.4	150.5	138.9
72.5°	269.5	213.7	148.4	120.0	116.8
75°	220.0	169.5	111.6	101.0	98.9
77.5°	174.7	128.4	87.4	81.0	78.9
80°	131.6	88.4	66.3	63.2	61.0
82.5°	90.5	54.7	47.4	44.2	44.2
85°	55.8	32.6	29.5	27.4	27.4
87.5°	25.3	13.7	13.7	12.6	11.6
90°	1.0	11.3	24.7	28.8	30.8
92.5°	30.8	37.0	43.2	46.2	44.2
95°	60.6	67.8	76.0	80.1	80.1
97.5°	99.7	104.8	111.0	116.1	115.1
100°	139.7	145.9	151.0	154.1	156.2
102.5°	186.0	189.1	196.3	199.3	198.3
105°	231.2	233.2	242.5	242.5	244.5
107.5°	284.6	285.6	289.8	292.8	291.8
110°	333.9	336.0	338.0	342.2	340.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	385.3	386.3	386.3	391.5	391.5
115°	436.7	439.8	437.7	438.7	437.7
117.5°	489.1	490.1	488.1	488.1	485.0
120°	537.4	543.5	538.4	537.4	535.3
122.5°	587.7	591.8	589.8	586.7	583.6
125°	639.1	642.2	640.1	636.0	631.9
127.5°	686.4	692.5	690.5	684.3	680.2
130°	733.6	741.9	738.8	734.7	727.5
132.5°	780.9	789.1	787.1	781.9	776.8
135°	829.2	835.4	834.3	830.2	828.2
137.5°	873.4	878.5	881.6	876.5	873.4
140°	919.6	924.7	925.8	924.7	917.6
142.5°	961.7	966.9	968.9	967.9	962.8
145°	1005.9	1008.0	1011.1	1010.0	1005.9
147.5°	1043.9	1048.0	1051.1	1051.1	1045.0
150°	1084.0	1086.1	1088.1	1088.1	1082.0
152.5°	1116.9	1120.0	1121.0	1123.1	1117.9
155°	1151.8	1151.8	1152.8	1157.0	1149.8
157.5°	1181.6	1180.6	1181.6	1185.7	1179.6
160°	1209.4	1207.3	1207.3	1212.4	1208.3
162.5°	1234.0	1230.9	1232.0	1237.1	1229.9
165°	1254.6	1251.5	1251.5	1257.7	1250.5
167.5°	1272.0	1267.9	1269.0	1275.1	1269.0
170°	1286.4	1282.3	1282.3	1289.5	1282.3
172.5°	1297.7	1293.6	1293.6	1299.8	1292.6
175°	1304.9	1300.8	1300.8	1307.0	1299.8
177.5°	1309.0	1304.9	1304.9	1311.1	1303.9
180°	1308.0	1308.0	1308.0	1308.0	1308.0

(END OF REPORT)