

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: P1032412

Luminaire Tested: S123RDIW-B775D1535UB30-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1032412
REPORT IS A COMBINATION OF REPORTS P994710 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIW-B775D1535UB30-4F0-XX-W2A-F
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

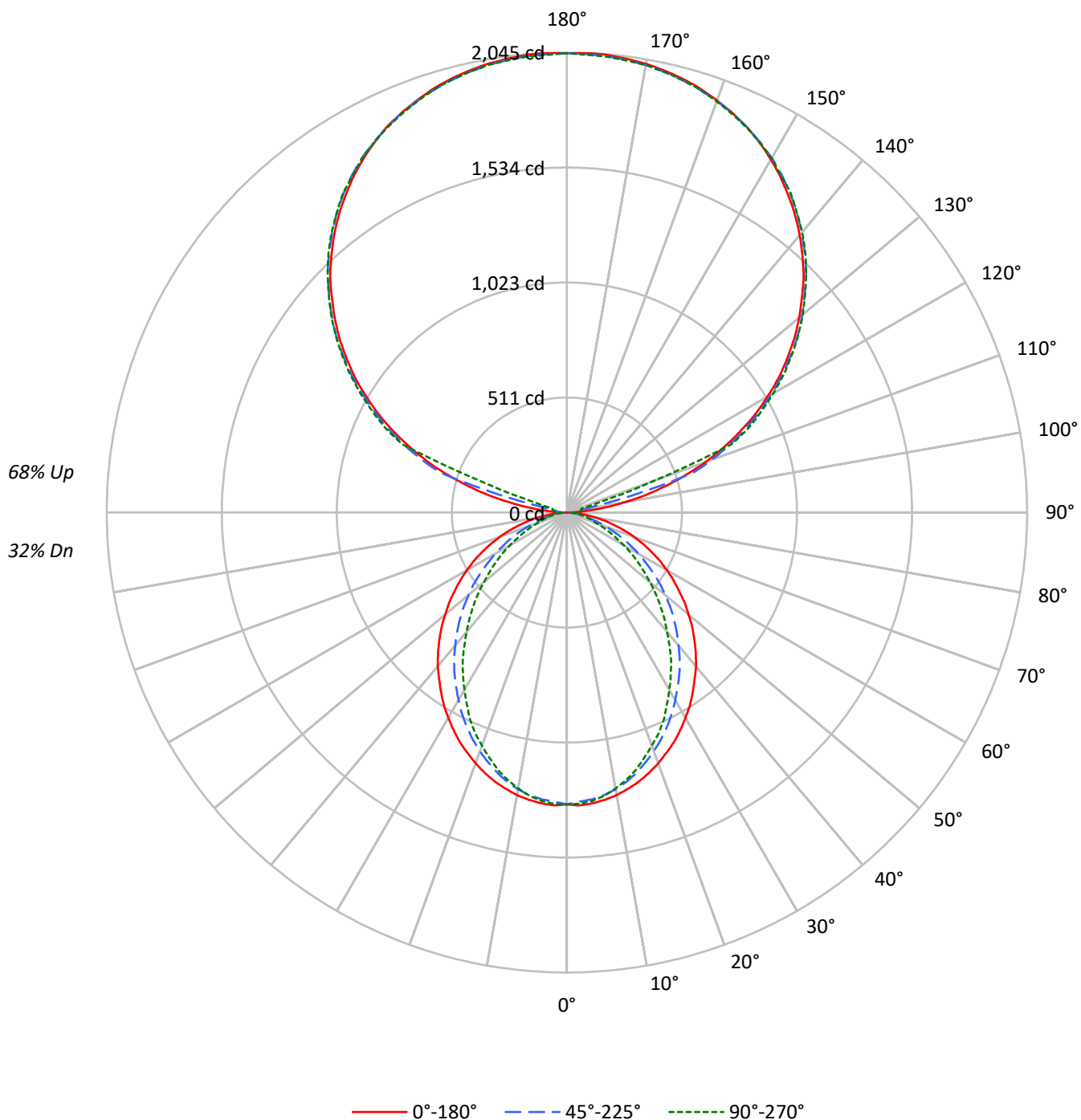
Lumens per Lamp: N/A
Luminaire Lumens: 9161.0 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 88.1
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	73	73	73	56	56	56	40	40	40
1	94	90	86	83	84	81	78	75	64	62	60	49	48	47	35	35	34
2	86	79	73	68	77	71	66	62	57	53	50	44	41	39	31	30	29
3	78	69	62	57	70	63	57	52	50	46	43	39	36	33	28	26	25
4	72	61	54	48	64	56	49	44	45	40	36	34	31	29	25	23	21
5	66	55	47	41	59	50	43	38	40	35	31	31	28	25	23	20	19
6	60	49	41	36	54	44	38	33	36	31	27	28	25	22	21	18	17
7	56	44	36	31	50	40	33	29	33	28	24	25	22	19	19	17	15
8	52	40	33	27	47	36	30	25	30	25	21	23	20	17	17	15	13
9	48	36	29	24	43	33	27	23	27	22	19	21	18	15	16	14	12
10	45	33	26	22	40	30	24	20	25	20	17	20	16	14	15	13	11

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	1.3
10°-20°	339.4	3.7
20°-30°	488.7	5.3
30°-40°	550.3	6.0
40°-50°	526.4	5.7
50°-60°	430.9	4.7
60°-70°	290.5	3.2
70°-80°	145.7	1.6
80°-90°	42.2	0.5
90°-100°	72.0	0.8
100°-110°	348.1	3.8
110°-120°	853.1	9.3
120°-130°	1083.0	11.8
130°-140°	1156.9	12.6
140°-150°	1081.9	11.8
150°-160°	872.6	9.5
160°-170°	563.2	6.1
170°-180°	194.1	2.1
0°-30°	950.1	10.4
0°-40°	1500.4	16.4
0°-60°	2457.7	26.8
0°-90°	2936.1	32.0
90°-120°	1273.3	13.9
90°-150°	4595.1	50.2
90°-180°	6225.0	68.0
0°-180°	9161.0	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°	2	17	36	42	46	9
95°	92	30	47	58	58	111
105°	452	469	332	64	67	479
115°	848	857	871	886	892	837
125°	1195	1208	1214	1217	1220	1068
135°	1488	1497	1503	1508	1503	1146
145°	1717	1728	1731	1734	1734	1075
155°	1892	1889	1890	1898	1889	872
165°	1995	1990	1989	2001	1990	564
175°	2042	2034	2036	2046	2034	194
180°	2042	2042	2042	2042	2042	

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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°	1.5	16.7	36.4	42.5	45.5
92.5°	34.9	25.8	39.4	50.1	51.6
95°	92.5	30.3	47.0	57.6	57.6
97.5°	168.4	125.9	48.5	60.7	62.2
100°	256.4	286.7	50.1	62.2	63.7
102.5°	356.5	376.2	112.3	62.2	65.2
105°	452.1	468.8	332.2	63.7	66.7
107.5°	553.7	567.4	590.1	356.5	157.8
110°	655.4	667.5	684.2	634.1	417.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	752.4	763.1	779.7	793.4	790.4
115°	848.0	857.1	870.8	885.9	892.0
117.5°	942.1	952.7	960.3	972.4	973.9
120°	1028.5	1042.2	1046.7	1058.9	1058.9
122.5°	1116.5	1127.1	1133.2	1140.8	1142.3
125°	1195.4	1207.5	1213.6	1216.6	1219.7
127.5°	1274.3	1286.4	1294.0	1298.6	1295.5
130°	1347.1	1359.2	1365.3	1371.4	1368.3
132.5°	1416.9	1429.0	1433.6	1439.6	1435.1
135°	1488.2	1497.3	1503.4	1507.9	1503.4
137.5°	1548.9	1561.0	1564.0	1571.6	1568.6
140°	1609.6	1618.7	1623.2	1629.3	1626.2
142.5°	1665.7	1674.8	1679.3	1683.9	1679.3
145°	1717.3	1727.9	1730.9	1734.0	1734.0
147.5°	1767.3	1774.9	1777.9	1781.0	1773.4
150°	1812.8	1817.4	1820.4	1823.5	1818.9
152.5°	1853.8	1855.3	1856.8	1862.9	1855.3
155°	1891.7	1888.7	1890.2	1897.8	1888.7
157.5°	1922.1	1922.1	1920.5	1929.6	1917.5
160°	1949.4	1947.9	1946.3	1955.4	1944.8
162.5°	1975.2	1970.6	1969.1	1979.7	1970.6
165°	1994.9	1990.3	1988.8	2000.9	1990.3
167.5°	2011.6	2005.5	2005.5	2017.6	2005.5
170°	2025.2	2019.2	2019.2	2031.3	2019.2
172.5°	2034.3	2026.7	2028.3	2040.4	2026.7
175°	2041.9	2034.3	2035.8	2046.5	2034.3
177.5°	2044.9	2037.4	2038.9	2051.0	2035.8
180°	2041.9	2041.9	2041.9	2041.9	2041.9

(END OF REPORT)