

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: P1032413

Luminaire Tested: S123RDIW-B775D1535UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1032413
REPORT IS A COMBINATION OF REPORTS P994711 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-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

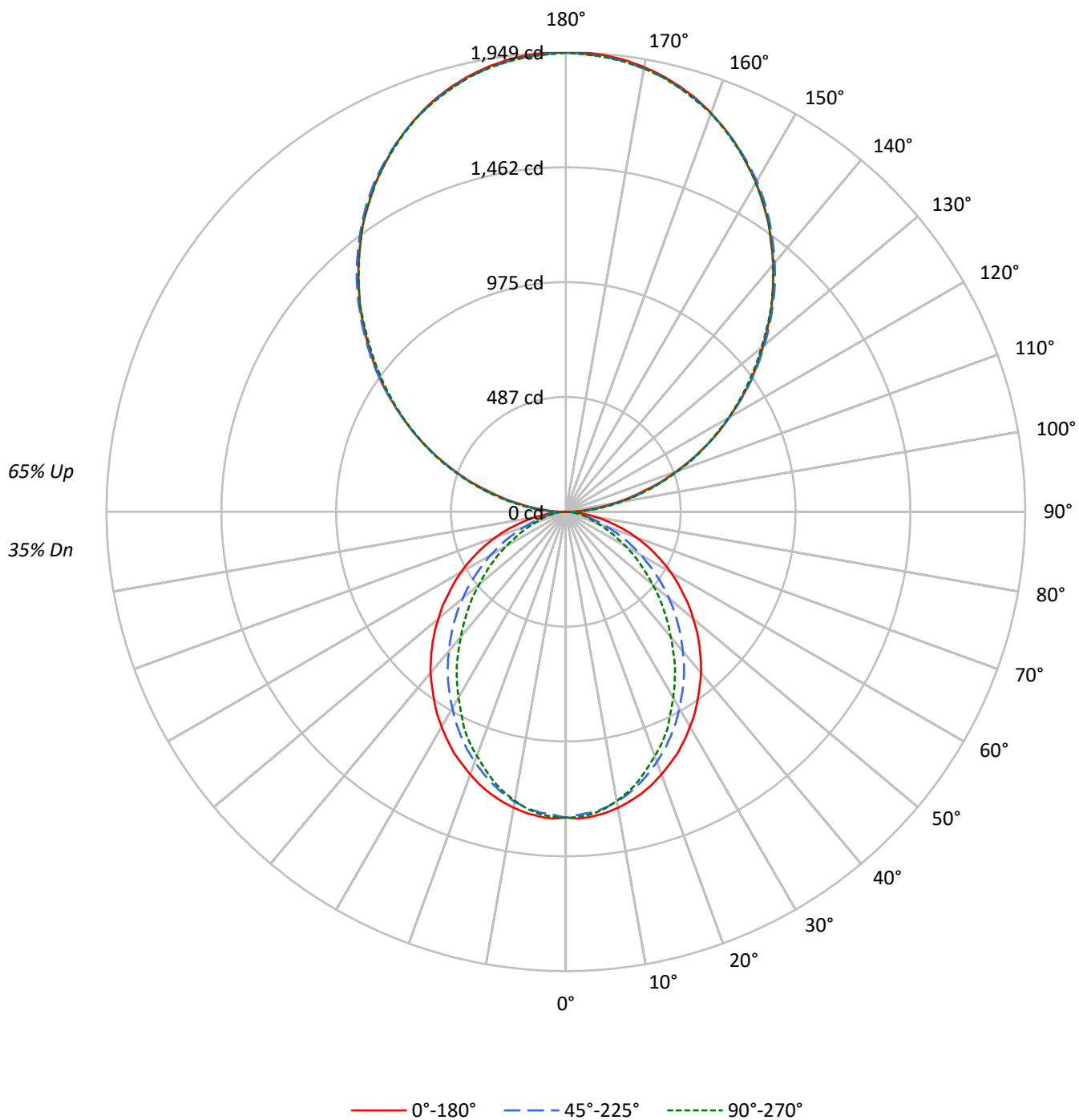
Lumens per Lamp: N/A
Luminaire Lumens: 8333.0 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43
1	95	91	87	84	86	82	79	76	66	64	62	51	50	49	38	37	36
2	86	79	73	69	78	72	67	63	58	55	52	45	43	41	34	32	31
3	79	70	63	57	71	63	57	53	51	47	44	40	37	35	30	28	27
4	72	62	54	49	65	56	50	45	46	41	37	36	33	30	27	25	23
5	66	55	47	42	60	50	43	38	41	36	32	32	29	26	24	22	20
6	61	49	42	36	55	45	38	33	37	32	28	29	26	23	22	20	18
7	56	45	37	32	51	41	34	29	33	28	25	27	23	20	20	18	16
8	52	40	33	28	47	37	30	26	30	25	22	24	21	18	19	16	14
9	49	37	30	25	44	34	27	23	28	23	20	22	19	16	17	15	13
10	45	34	27	22	41	31	25	21	26	21	18	21	17	15	16	14	12

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	1.5
10°-20°	339.4	4.1
20°-30°	488.7	5.9
30°-40°	550.3	6.6
40°-50°	526.4	6.3
50°-60°	430.9	5.2
60°-70°	290.5	3.5
70°-80°	145.7	1.7
80°-90°	42.2	0.5
90°-100°	125.4	1.5
100°-110°	379.5	4.6
110°-120°	646.1	7.8
120°-130°	849.9	10.2
130°-140°	955.3	11.5
140°-150°	939.2	11.3
150°-160°	790.7	9.5
160°-170°	526.4	6.3
170°-180°	184.3	2.2
0°-30°	950.1	11.4
0°-40°	1500.4	18.0
0°-60°	2457.7	29.5
0°-90°	2936.1	35.2
90°-120°	1150.9	13.8
90°-150°	3895.4	46.7
90°-180°	5397.0	64.8
0°-180°	8333.0	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	37	43	46	10
95°	90	101	113	119	119	99
105°	344	347	361	361	364	369
115°	650	655	652	653	652	644
125°	952	956	953	947	941	849
135°	1235	1244	1242	1236	1233	951
145°	1498	1501	1506	1504	1498	936
155°	1715	1715	1717	1723	1712	790
165°	1868	1864	1864	1873	1862	527
175°	1943	1937	1937	1946	1936	185
180°	1948	1948	1948	1948	1948	

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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	16.8	36.7	42.8	45.9
92.5°	45.9	55.1	64.3	68.9	65.8
95°	90.3	101.0	113.2	119.3	119.3
97.5°	148.4	156.1	165.2	172.9	171.4
100°	208.1	217.3	224.9	229.5	232.6
102.5°	276.9	281.5	292.2	296.8	295.3
105°	344.3	347.3	361.1	361.1	364.2
107.5°	423.8	425.4	431.5	436.1	434.5
110°	497.3	500.3	503.4	509.5	506.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	573.8	575.3	575.3	583.0	583.0
115°	650.3	654.9	651.8	653.3	651.8
117.5°	728.3	729.8	726.8	726.8	722.2
120°	800.2	809.4	801.7	800.2	797.2
122.5°	875.2	881.3	878.3	873.7	869.1
125°	951.7	956.3	953.2	947.1	941.0
127.5°	1022.1	1031.3	1028.2	1019.0	1012.9
130°	1092.5	1104.7	1100.1	1094.0	1083.3
132.5°	1162.8	1175.1	1172.0	1164.4	1156.7
135°	1234.8	1243.9	1242.4	1236.3	1233.2
137.5°	1300.5	1308.2	1312.8	1305.1	1300.5
140°	1369.4	1377.0	1378.6	1377.0	1366.3
142.5°	1432.1	1439.8	1442.8	1441.3	1433.7
145°	1497.9	1501.0	1505.6	1504.0	1497.9
147.5°	1554.5	1560.7	1565.2	1565.2	1556.1
150°	1614.2	1617.3	1620.3	1620.3	1611.1
152.5°	1663.2	1667.8	1669.3	1672.3	1664.7
155°	1715.2	1715.2	1716.7	1722.8	1712.1
157.5°	1759.6	1758.0	1759.6	1765.7	1756.5
160°	1800.9	1797.8	1797.8	1805.5	1799.3
162.5°	1837.6	1833.0	1834.5	1842.2	1831.5
165°	1868.2	1863.6	1863.6	1872.8	1862.1
167.5°	1894.2	1888.1	1889.6	1898.8	1889.6
170°	1915.6	1909.5	1909.5	1920.2	1909.5
172.5°	1932.5	1926.3	1926.3	1935.5	1924.8
175°	1943.2	1937.0	1937.0	1946.2	1935.5
177.5°	1949.3	1943.2	1943.2	1952.3	1941.6
180°	1947.8	1947.8	1947.8	1947.8	1947.8

(END OF REPORT)