

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: P1032409

Luminaire Tested: S123RDIW-B775D1535UB27-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1032409
REPORT IS A COMBINATION OF REPORTS P994691 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIW-B775D1535UB27-4F0-XX-W2A-F1
Description: Define 3 Regressed Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

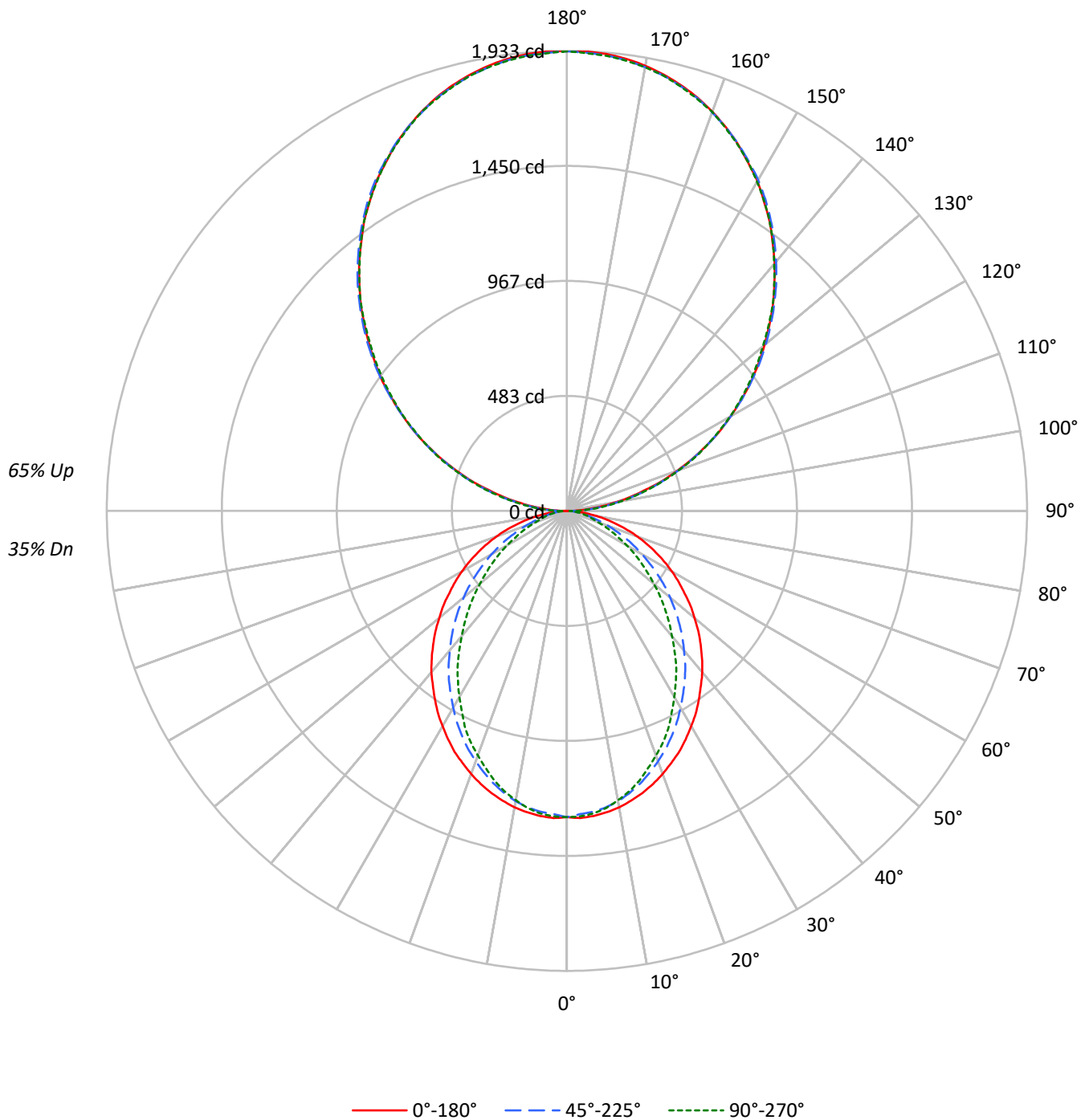
Lumens per Lamp: N/A
Luminaire Lumens: 8262.0 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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°	13851	13851	13851
5°	13874	13360	13324
10°	13764	12858	12605
15°	13586	12238	11816
20°	13350	11562	10936
25°	13109	10861	10102
30°	12799	10114	9115
35°	12480	9381	8216
40°	12180	8585	7224
45°	11795	7806	6331
50°	11370	6974	5408
55°	10930	6085	4562
60°	10509	5172	3703
65°	9964	4234	2890
70°	9282	3203	2066
75°	8296	2168	1637
80°	7079	1506	1147
85°	5312	813	601

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11795 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.0	1.5
10°-20°	336.5	4.1
20°-30°	484.5	5.9
30°-40°	545.6	6.6
40°-50°	521.9	6.3
50°-60°	427.2	5.2
60°-70°	288.0	3.5
70°-80°	144.5	1.7
80°-90°	41.9	0.5
90°-100°	124.3	1.5
100°-110°	376.3	4.6
110°-120°	640.6	7.8
120°-130°	842.7	10.2
130°-140°	947.2	11.5
140°-150°	931.2	11.3
150°-160°	784.0	9.5
160°-170°	521.9	6.3
170°-180°	182.8	2.2
0°-30°	942.0	11.4
0°-40°	1487.6	18.0
0°-60°	2436.7	29.5
0°-90°	2911.1	35.2
90°-120°	1141.1	13.8
90°-150°	3862.2	46.7
90°-180°	5351.0	64.8
0°-180°	8262.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1287	1287	1287	1287	1287	
5°	1287	1282	1269	1278	1276	122
15°	1227	1216	1187	1181	1174	346
25°	1117	1091	1043	1021	1009	514
35°	966	929	864	819	800	605
45°	794	747	667	607	582	613
55°	603	552	463	403	382	541
65°	412	355	273	222	211	408
75°	218	168	111	100	98	232
85°	55	32	29	27	27	61
90°	2	17	36	42	46	10
95°	90	100	112	118	118	99
105°	341	344	358	358	361	365
115°	645	649	646	648	646	638
125°	944	948	945	939	933	842
135°	1224	1233	1232	1226	1223	943
145°	1485	1488	1493	1491	1485	928
155°	1701	1701	1702	1708	1698	783
165°	1852	1848	1848	1857	1846	522
175°	1927	1920	1920	1930	1919	183
180°	1931	1931	1931	1931	1931	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1286.8	1286.8	1286.8	1286.8	1286.8
2.5°	1292.0	1287.8	1275.3	1286.8	1284.7
5°	1286.8	1281.5	1269.0	1278.4	1276.3
7.5°	1277.4	1272.1	1256.5	1262.7	1259.6
10°	1264.8	1257.5	1238.7	1239.8	1234.6
12.5°	1247.1	1238.7	1214.7	1213.7	1207.4
15°	1227.3	1215.8	1186.6	1181.3	1174.0
17.5°	1203.3	1190.7	1154.2	1143.8	1133.3
20°	1176.1	1159.4	1119.8	1106.2	1093.7
22.5°	1145.9	1126.0	1083.3	1065.5	1054.0
25°	1116.6	1090.6	1042.6	1020.6	1009.2
27.5°	1081.2	1053.0	1000.8	971.6	953.8
30°	1044.6	1013.3	954.9	919.4	902.7
32.5°	1008.1	971.6	909.0	869.3	851.6
35°	966.4	928.8	864.1	819.2	800.4
37.5°	924.6	883.9	816.1	766.0	743.0
40°	885.0	839.0	765.0	710.7	686.7
42.5°	840.1	794.2	716.9	656.4	635.5
45°	794.2	747.2	666.9	607.4	582.3
47.5°	749.3	697.1	617.8	553.1	531.2
50°	699.2	650.2	565.6	500.9	476.9
52.5°	654.3	600.1	516.6	448.7	427.9
55°	603.2	552.1	463.4	402.8	382.0
57.5°	557.3	502.0	412.2	354.8	337.1
60°	509.3	451.9	365.3	308.9	291.2
62.5°	461.3	403.9	317.3	265.1	246.3
65°	412.2	354.8	273.4	222.3	210.8
67.5°	363.2	304.7	225.4	186.8	174.3
70°	315.2	258.8	185.8	149.2	137.8
72.5°	267.2	211.8	147.1	119.0	115.8
75°	218.1	168.0	110.6	100.2	98.1
77.5°	173.2	127.3	86.6	80.4	78.3
80°	130.4	87.7	65.7	62.6	60.5
82.5°	89.7	54.3	47.0	43.8	43.8
85°	55.3	32.4	29.2	27.1	27.1
87.5°	25.0	13.6	13.6	12.5	11.5
90°	1.5	16.7	36.4	42.5	45.5
92.5°	45.5	54.6	63.7	68.3	65.2
95°	89.5	100.1	112.3	118.3	118.3
97.5°	147.2	154.7	163.8	171.4	169.9
100°	206.3	215.4	223.0	227.6	230.6
102.5°	274.6	279.1	289.8	294.3	292.8
105°	341.3	344.4	358.0	358.0	361.1
107.5°	420.2	421.7	427.8	432.4	430.8
110°	493.0	496.1	499.1	505.2	502.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	568.9	570.4	570.4	578.0	578.0
115°	644.7	649.3	646.3	647.8	646.3
117.5°	722.1	723.6	720.6	720.6	716.0
120°	793.4	802.5	794.9	793.4	790.4
122.5°	867.7	873.8	870.8	866.2	861.7
125°	943.6	948.1	945.1	939.0	933.0
127.5°	1013.4	1022.5	1019.4	1010.3	1004.3
130°	1083.2	1095.3	1090.7	1084.7	1074.1
132.5°	1152.9	1165.1	1162.0	1154.5	1146.9
135°	1224.2	1233.3	1231.8	1225.8	1222.7
137.5°	1289.5	1297.1	1301.6	1294.0	1289.5
140°	1357.7	1365.3	1366.8	1365.3	1354.7
142.5°	1419.9	1427.5	1430.6	1429.0	1421.4
145°	1485.2	1488.2	1492.7	1491.2	1485.2
147.5°	1541.3	1547.4	1551.9	1551.9	1542.8
150°	1600.5	1603.5	1606.5	1606.5	1597.4
152.5°	1649.0	1653.6	1655.1	1658.1	1650.5
155°	1700.6	1700.6	1702.1	1708.2	1697.5
157.5°	1744.6	1743.1	1744.6	1750.6	1741.5
160°	1785.5	1782.5	1782.5	1790.1	1784.0
162.5°	1821.9	1817.4	1818.9	1826.5	1815.9
165°	1852.3	1847.7	1847.7	1856.8	1846.2
167.5°	1878.1	1872.0	1873.5	1882.6	1873.5
170°	1899.3	1893.2	1893.2	1903.9	1893.2
172.5°	1916.0	1909.9	1909.9	1919.0	1908.4
175°	1926.6	1920.5	1920.5	1929.7	1919.0
177.5°	1932.7	1926.6	1926.6	1935.7	1925.1
180°	1931.2	1931.2	1931.2	1931.2	1931.2

(END OF REPORT)