

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: P1032417

Luminaire Tested: S123RDIW-B775D1535UB35-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1032417
REPORT IS A COMBINATION OF REPORTS P994717 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIW-B775D1535UB35-4F0-XX-W2A-F1
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

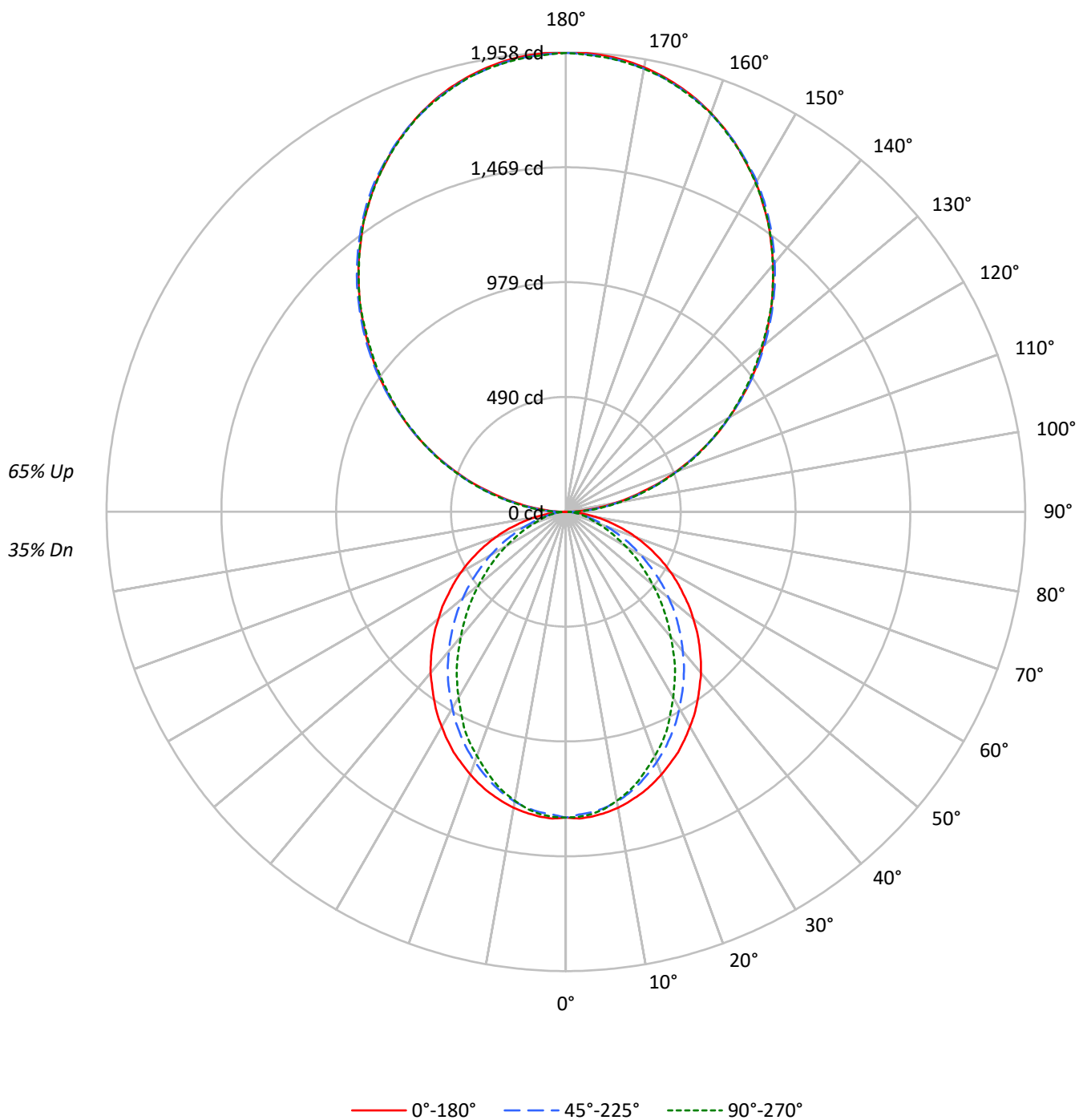
Lumens per Lamp: N/A
Luminaire Lumens: 8369.0 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	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°	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	1.5
10°-20°	340.9	4.1
20°-30°	490.8	5.9
30°-40°	552.8	6.6
40°-50°	528.7	6.3
50°-60°	432.8	5.2
60°-70°	291.8	3.5
70°-80°	146.4	1.7
80°-90°	42.4	0.5
90°-100°	125.9	1.5
100°-110°	381.1	4.6
110°-120°	648.8	7.8
120°-130°	853.5	10.2
130°-140°	959.4	11.5
140°-150°	943.2	11.3
150°-160°	794.1	9.5
160°-170°	528.7	6.3
170°-180°	185.1	2.2
0°-30°	954.3	11.4
0°-40°	1507.0	18.0
0°-60°	2468.6	29.5
0°-90°	2949.2	35.2
90°-120°	1155.8	13.8
90°-150°	3912.0	46.7
90°-180°	5420.0	64.8
0°-180°	8369.0	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°	2	17	37	43	46	10
95°	91	101	114	120	120	100
105°	346	349	363	363	366	370
115°	653	658	655	656	655	646
125°	956	960	957	951	945	852
135°	1240	1249	1248	1242	1238	955
145°	1504	1507	1512	1510	1504	940
155°	1722	1722	1724	1730	1719	793
165°	1876	1872	1872	1881	1870	529
175°	1951	1945	1945	1954	1944	185
180°	1956	1956	1956	1956	1956	

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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°	1.5	16.9	36.9	43.0	46.1
92.5°	46.1	55.3	64.5	69.1	66.1
95°	90.7	101.4	113.7	119.9	119.9
97.5°	149.0	156.7	165.9	173.6	172.1
100°	209.0	218.2	225.9	230.5	233.6
102.5°	278.1	282.7	293.5	298.1	296.6
105°	345.7	348.8	362.6	362.6	365.7
107.5°	425.6	427.2	433.3	437.9	436.4
110°	499.4	502.5	505.5	511.7	508.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	576.2	577.7	577.7	585.4	585.4
115°	653.0	657.7	654.6	656.1	654.6
117.5°	731.4	732.9	729.9	729.9	725.3
120°	803.6	812.8	805.2	803.6	800.6
122.5°	878.9	885.1	882.0	877.4	872.8
125°	955.7	960.4	957.3	951.1	945.0
127.5°	1026.4	1035.6	1032.6	1023.4	1017.2
130°	1097.1	1109.4	1104.8	1098.6	1087.9
132.5°	1167.8	1180.1	1177.0	1169.3	1161.6
135°	1240.0	1249.2	1247.7	1241.5	1238.5
137.5°	1306.1	1313.8	1318.4	1310.7	1306.1
140°	1375.2	1382.9	1384.4	1382.9	1372.2
142.5°	1438.2	1445.9	1449.0	1447.4	1439.8
145°	1504.3	1507.4	1512.0	1510.4	1504.3
147.5°	1561.2	1567.3	1571.9	1571.9	1562.7
150°	1621.1	1624.2	1627.2	1627.2	1618.0
152.5°	1670.3	1674.9	1676.4	1679.5	1671.8
155°	1722.5	1722.5	1724.0	1730.2	1719.4
157.5°	1767.1	1765.5	1767.1	1773.2	1764.0
160°	1808.5	1805.5	1805.5	1813.2	1807.0
162.5°	1845.4	1840.8	1842.3	1850.0	1839.3
165°	1876.2	1871.5	1871.5	1880.8	1870.0
167.5°	1902.3	1896.1	1897.7	1906.9	1897.7
170°	1923.8	1917.6	1917.6	1928.4	1917.6
172.5°	1940.7	1934.5	1934.5	1943.8	1933.0
175°	1951.4	1945.3	1945.3	1954.5	1943.8
177.5°	1957.6	1951.4	1951.4	1960.7	1949.9
180°	1956.1	1956.1	1956.1	1956.1	1956.1

(END OF REPORT)