

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: P1031908

Luminaire Tested: S123DIW-B775D1535UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1031908
REPORT IS A COMBINATION OF REPORTS P992008 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIW-B775D1535UB30-4F0-XX-W2A-F1
Description: Define 3 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

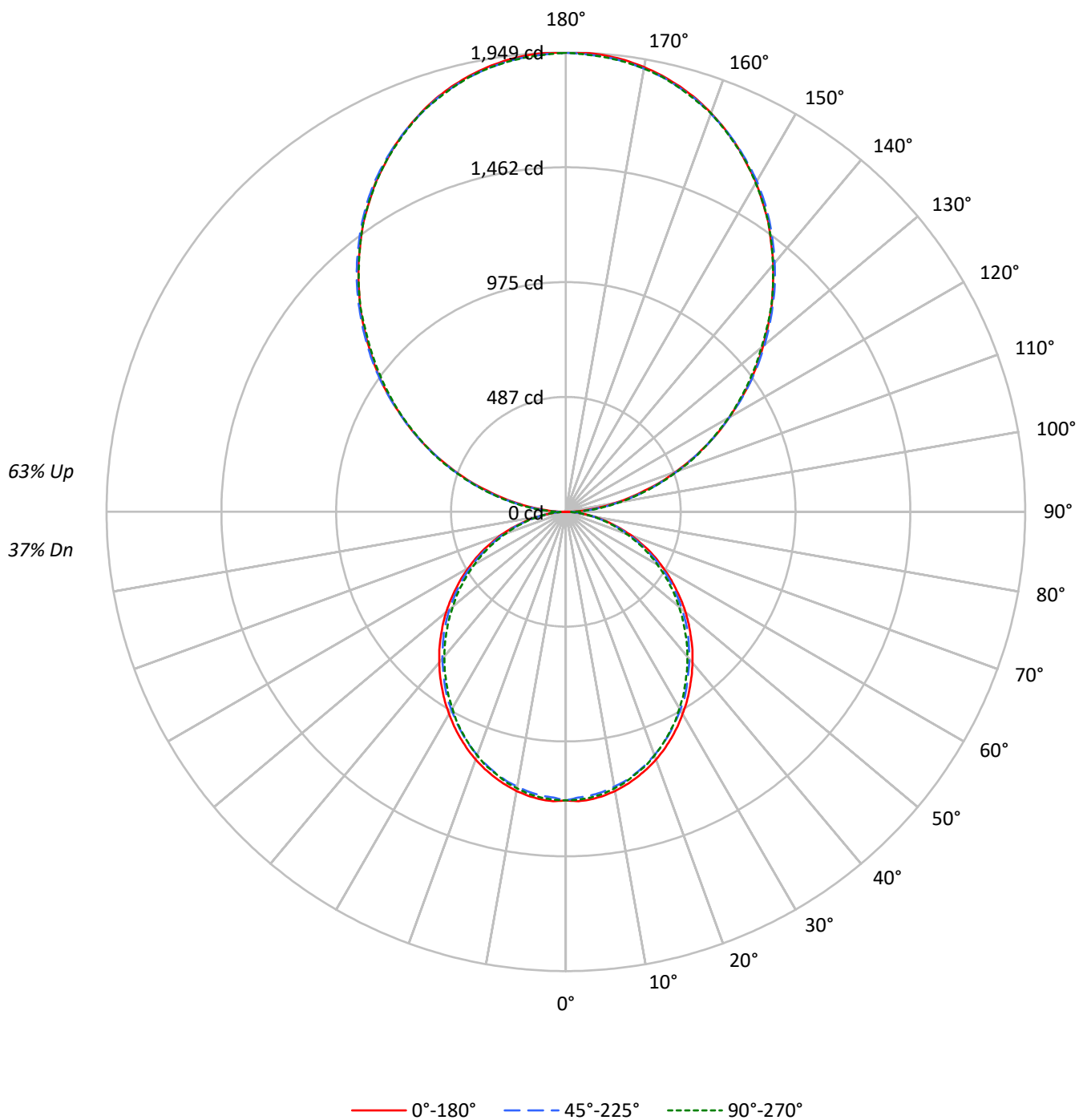
Lumens per Lamp: N/A
Luminaire Lumens: 8587.0 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	76	76	76	60	60	60	44	44	44
1	95	91	87	83	86	82	79	76	67	64	62	52	51	49	39	38	37
2	86	79	73	68	78	72	67	62	58	55	52	46	43	41	34	33	31
3	79	69	62	57	71	63	57	52	51	47	43	41	37	35	30	28	27
4	72	61	54	48	65	56	49	44	46	41	37	36	33	30	27	25	23
5	66	55	47	41	60	50	43	38	41	36	32	32	29	26	24	22	20
6	61	49	41	35	55	45	38	33	37	31	27	29	25	22	22	20	18
7	56	44	36	31	51	40	33	29	33	28	24	26	23	20	20	18	16
8	52	40	32	27	47	37	30	25	30	25	21	24	20	18	19	16	14
9	48	36	29	24	44	33	27	22	28	23	19	22	18	16	17	14	13
10	45	33	26	21	41	31	24	20	25	20	17	20	17	14	16	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13177	13177	13177
5°	13209	12722	12703
10°	13092	12292	12165
15°	12910	11844	11580
20°	12701	11347	10999
25°	12431	10822	10378
30°	12136	10279	9725
35°	11827	9725	9076
40°	11503	9142	8438
45°	11146	8575	7771
50°	10783	7943	7102
55°	10319	7284	6424
60°	9838	6557	5702
65°	9389	5771	4949
70°	8740	4899	4072
75°	7809	3879	3161
80°	6743	2725	2236
85°	5254	1465	1119

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11146 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.4	1.3
10°-20°	325.9	3.8
20°-30°	481.3	5.6
30°-40°	562.1	6.5
40°-50°	565.1	6.6
50°-60°	496.4	5.8
60°-70°	369.7	4.3
70°-80°	210.4	2.5
80°-90°	63.9	0.7
90°-100°	125.4	1.5
100°-110°	379.5	4.4
110°-120°	646.1	7.5
120°-130°	849.9	9.9
130°-140°	955.3	11.1
140°-150°	939.2	10.9
150°-160°	790.7	9.2
160°-170°	526.4	6.1
170°-180°	184.3	2.1
0°-30°	922.6	10.7
0°-40°	1484.6	17.3
0°-60°	2546.1	29.7
0°-90°	3190.1	37.2
90°-120°	1150.9	13.4
90°-150°	3895.4	45.4
90°-180°	5397.0	62.9
0°-180°	8587.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1224	1224	1224	1224	1224	
5°	1225	1220	1208	1219	1217	116
15°	1166	1162	1148	1157	1150	329
25°	1059	1053	1039	1040	1037	488
35°	916	910	896	890	884	573
45°	750	746	733	720	715	579
55°	570	568	555	543	538	510
65°	388	383	373	364	361	383
75°	205	201	198	193	190	219
85°	55	53	53	50	50	59
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°	1224.2	1224.2	1224.2	1224.2	1224.2
2.5°	1229.4	1225.2	1213.7	1224.2	1223.1
5°	1225.2	1220.0	1208.4	1218.9	1216.8
7.5°	1215.8	1210.5	1198.9	1208.4	1207.3
10°	1203.1	1197.9	1184.2	1193.7	1191.5
12.5°	1186.3	1182.1	1169.4	1175.8	1174.7
15°	1166.3	1162.1	1148.4	1156.8	1150.5
17.5°	1144.2	1138.9	1125.2	1131.6	1129.4
20°	1118.9	1112.6	1098.9	1103.1	1100.0
22.5°	1090.5	1084.2	1070.5	1073.7	1069.4
25°	1058.9	1052.6	1038.9	1040.0	1036.8
27.5°	1026.3	1020.0	1005.2	1006.3	1003.1
30°	990.5	985.2	970.5	970.5	963.1
32.5°	954.7	947.3	936.8	929.5	926.3
35°	915.8	909.5	895.8	889.5	884.2
37.5°	876.8	868.4	854.7	847.3	844.2
40°	835.8	829.5	814.7	806.3	802.1
42.5°	794.7	787.3	772.6	764.2	760.0
45°	750.5	746.3	732.6	720.0	714.7
47.5°	707.4	701.0	688.4	675.8	671.6
50°	663.1	657.9	644.2	632.6	626.3
52.5°	616.8	613.7	598.9	589.5	583.1
55°	569.5	568.4	554.7	543.1	537.9
57.5°	525.3	521.0	510.5	500.0	493.7
60°	476.8	475.8	463.1	453.7	448.4
62.5°	433.7	430.5	417.9	408.4	405.3
65°	388.4	383.1	372.6	364.2	361.0
67.5°	340.0	335.8	327.4	320.0	315.8
70°	296.8	290.5	284.2	276.8	271.6
72.5°	251.6	247.4	240.0	233.7	231.6
75°	205.3	201.0	197.9	192.6	189.5
77.5°	164.2	162.1	157.9	153.7	153.7
80°	124.2	121.0	118.9	117.9	117.9
82.5°	85.3	85.3	85.3	83.2	82.1
85°	54.7	52.6	52.6	50.5	50.5
87.5°	27.4	24.2	23.2	22.1	22.1
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)