

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: P1031907

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

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1031907
REPORT IS A COMBINATION OF REPORTS P992007 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-F
Description: Define 3 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

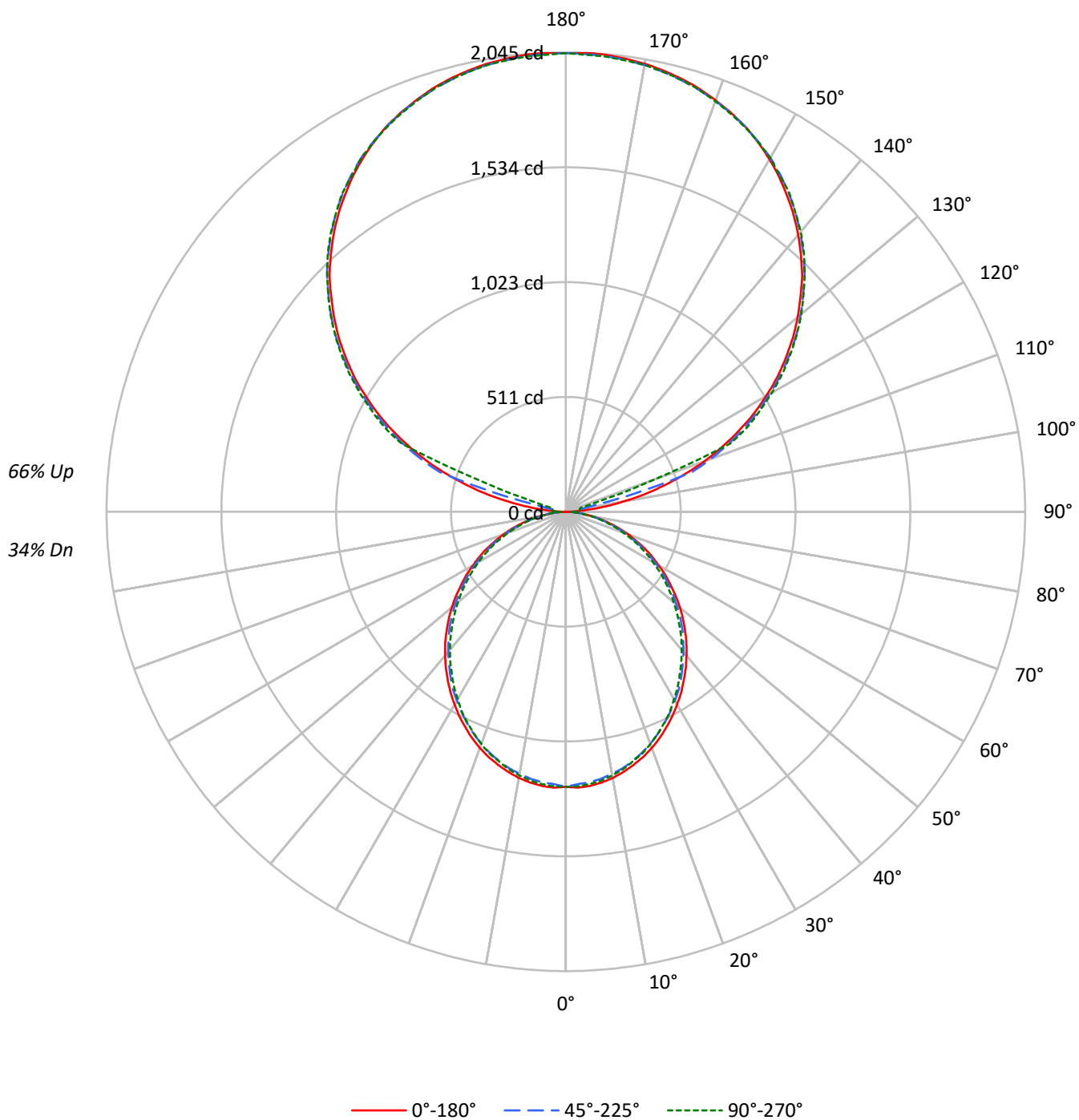
Lumens per Lamp: N/A
Luminaire Lumens: 9415.0 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41
1	94	90	86	83	85	81	78	75	65	63	61	50	49	47	36	36	35
2	86	78	72	67	77	71	66	62	57	53	50	44	42	40	32	31	29
3	78	69	62	56	70	62	56	51	50	46	42	39	36	33	28	26	25
4	71	61	53	47	64	55	49	43	44	40	36	35	31	29	25	23	21
5	65	54	46	40	59	49	42	37	40	35	31	31	27	25	23	20	19
6	60	48	41	35	54	44	37	32	36	31	27	28	24	21	21	18	16
7	56	44	36	30	50	40	33	28	32	27	23	25	22	19	19	16	14
8	51	39	32	27	46	36	29	25	29	24	21	23	19	17	17	15	13
9	48	36	29	24	43	33	26	22	27	22	18	21	18	15	16	13	12
10	45	33	26	21	40	30	24	20	25	20	17	20	16	14	15	12	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	1.2
10°-20°	325.9	3.5
20°-30°	481.3	5.1
30°-40°	562.1	6.0
40°-50°	565.1	6.0
50°-60°	496.4	5.3
60°-70°	369.7	3.9
70°-80°	210.4	2.2
80°-90°	63.9	0.7
90°-100°	72.0	0.8
100°-110°	348.1	3.7
110°-120°	853.1	9.1
120°-130°	1083.0	11.5
130°-140°	1156.9	12.3
140°-150°	1081.9	11.5
150°-160°	872.6	9.3
160°-170°	563.2	6.0
170°-180°	194.1	2.1
0°-30°	922.6	9.8
0°-40°	1484.6	15.8
0°-60°	2546.1	27.0
0°-90°	3190.1	33.9
90°-120°	1273.3	13.5
90°-150°	4595.1	48.8
90°-180°	6225.0	66.1
0°-180°	9415.0	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	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°	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	16.7	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)