

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: P1030975

Luminaire Tested: S123DIW-B775D1535UB2750-4F0-XX-W2A-D_2700K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1030975
REPORT IS A COMBINATION OF REPORTS P991989 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIW-B775D1535UB2750-4F0-XX-W2A-D_2700K
Description: Define 3 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

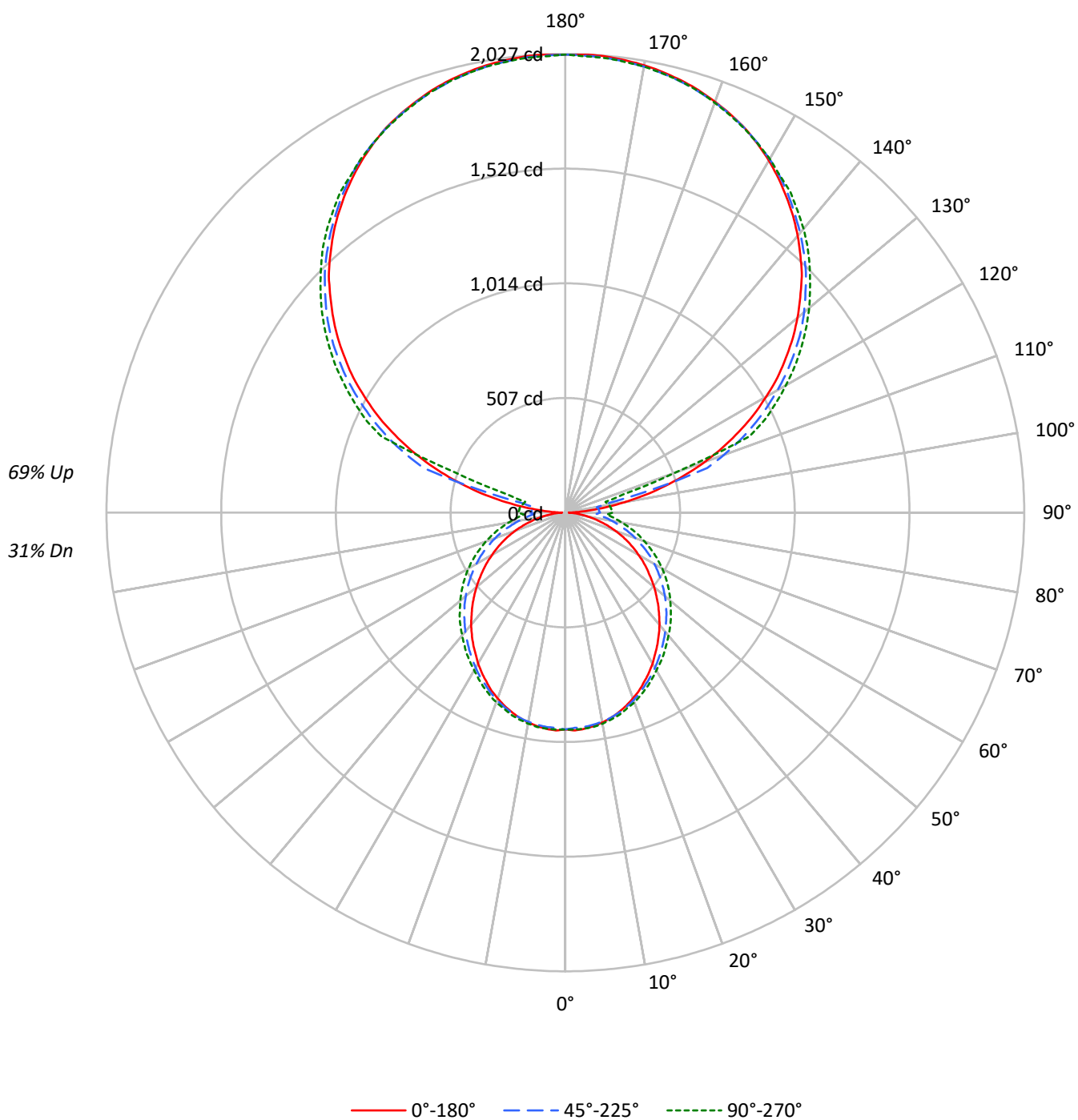
Lumens per Lamp: N/A
Luminaire Lumens: 9394.9 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	50	30	10
RCR																				
0	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	39	39	39
1	93	88	84	81	83	80	76	73	63	61	58	48	46	45	33	32	32	32	32	32
2	84	77	71	65	75	69	64	59	55	51	48	41	39	37	29	27	26	26	26	26
3	77	67	60	54	69	61	54	49	48	43	40	36	33	31	26	24	22	22	22	22
4	70	59	51	45	63	53	47	41	42	38	34	32	29	26	23	20	19	19	19	19
5	64	53	45	39	57	47	41	35	38	33	29	29	25	22	20	18	16	16	16	16
6	59	47	39	33	53	42	36	30	34	29	25	26	22	19	18	16	14	14	14	14
7	54	42	34	29	49	38	31	27	31	25	22	23	20	17	17	14	12	12	12	12
8	50	38	31	25	45	35	28	23	28	23	19	21	18	15	15	13	11	11	11	11
9	47	35	27	22	42	32	25	21	25	20	17	20	16	13	14	12	10	10	10	10
10	44	32	25	20	39	29	23	18	23	18	15	18	15	12	13	11	9	9	9	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10313	10313	10313
5°	10342	10010	10002
10°	10244	9739	9665
15°	10109	9440	9307
20°	9917	9106	8923
25°	9679	8730	8525
30°	9437	8391	8125
35°	9165	8033	7800
40°	8906	7706	7456
45°	8618	7390	7172
50°	8334	7077	6864
55°	8018	6756	6582
60°	7709	6428	6291
65°	7392	6078	5953
70°	6915	5685	5602
75°	6311	5238	5242
80°	5608	4784	4830
85°	4908	4417	4535

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8618 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.9	1.0
10°-20°	259.1	2.8
20°-30°	387.5	4.1
30°-40°	462.6	4.9
40°-50°	484.0	5.2
50°-60°	454.2	4.8
60°-70°	379.4	4.0
70°-80°	271.3	2.9
80°-90°	165.4	1.8
90°-100°	172.8	1.8
100°-110°	419.7	4.5
110°-120°	895.5	9.5
120°-130°	1102.0	11.7
130°-140°	1159.6	12.3
140°-150°	1075.1	11.4
150°-160°	865.1	9.2
160°-170°	558.3	5.9
170°-180°	192.4	2.0
0°-30°	737.5	7.8
0°-40°	1200.1	12.8
0°-60°	2138.3	22.8
0°-90°	2954.4	31.4
90°-120°	1488.0	15.8
90°-150°	4824.8	51.4
90°-180°	6441.0	68.6
0°-180°	9394.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	958	958	958	958	958	
5°	959	957	951	959	958	91
15°	913	916	915	926	925	257
25°	824	835	838	852	852	380
35°	710	726	740	756	760	444
45°	580	605	631	651	660	447
55°	442	477	514	543	551	396
65°	306	346	392	424	434	302
75°	166	215	267	302	314	177
85°	51	103	159	194	205	53
90°	15	81	154	196	209	15
95°	103	82	150	193	203	119
105°	456	498	408	171	183	484
115°	846	867	918	959	973	836
125°	1188	1200	1236	1261	1272	1062
135°	1477	1485	1503	1526	1527	1137
145°	1703	1713	1716	1727	1731	1066
155°	1875	1872	1874	1881	1872	864
165°	1978	1973	1972	1984	1973	559
175°	2024	2017	2018	2029	2017	193
180°	2024	2024	2024	2024	2024	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	958.1	958.1	958.1	958.1	958.1
2.5°	963.3	960.2	951.8	960.2	959.2
5°	959.2	957.1	950.8	959.2	958.1
7.5°	951.8	951.8	945.6	956.0	955.0
10°	941.4	943.5	938.3	948.7	946.6
12.5°	928.9	932.0	928.9	938.3	936.2
15°	913.2	916.4	915.3	925.8	924.7
17.5°	894.4	900.7	899.7	909.1	907.0
20°	873.6	879.8	881.9	891.3	892.4
22.5°	851.7	857.9	861.0	873.6	872.5
25°	824.5	835.0	838.1	851.7	851.7
27.5°	798.4	809.9	816.2	827.6	828.7
30°	770.2	783.8	792.2	804.7	804.7
32.5°	738.9	754.6	766.1	779.6	782.8
35°	709.7	726.4	740.0	755.6	759.8
37.5°	678.4	697.2	712.8	730.6	733.7
40°	647.1	665.9	686.7	704.5	708.7
42.5°	612.6	636.7	658.6	678.4	684.7
45°	580.3	605.3	631.4	651.3	659.6
47.5°	545.9	574.0	603.3	625.2	631.4
50°	512.5	541.7	574.0	598.0	605.3
52.5°	477.0	508.3	544.8	569.9	579.2
55°	442.5	477.0	514.5	542.7	551.1
57.5°	409.1	444.6	485.3	513.5	522.9
60°	373.6	411.2	454.0	483.2	494.7
62.5°	340.2	378.9	424.8	454.0	464.4
65°	305.8	346.5	392.4	423.7	434.2
67.5°	271.4	314.2	360.1	394.5	402.9
70°	234.8	279.7	329.8	363.2	373.6
72.5°	201.4	246.3	298.5	332.9	343.4
75°	165.9	215.0	267.2	301.6	314.2
77.5°	135.7	184.7	236.9	273.4	282.8
80°	103.3	154.5	208.7	244.2	254.7
82.5°	75.1	127.3	182.6	218.1	228.6
85°	51.1	103.3	158.6	194.1	204.6
87.5°	31.3	83.5	136.7	172.2	182.6
90°	15.1	81.2	154.0	195.5	209.0
92.5°	47.1	83.0	148.7	193.6	204.5
95°	103.2	82.3	149.9	192.8	203.2
97.5°	177.3	172.8	145.2	188.6	200.5
100°	263.6	327.0	140.4	182.8	194.7
102.5°	361.7	410.6	195.8	175.5	188.9
105°	456.5	498.1	407.6	170.7	183.1
107.5°	556.2	591.6	657.0	453.6	266.0
110°	656.0	686.7	745.0	722.5	515.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	752.2	777.3	833.5	873.1	879.5
115°	845.9	867.4	918.5	958.7	973.0
117.5°	939.1	958.0	1001.0	1038.1	1048.0
120°	1023.8	1042.6	1081.5	1117.5	1124.8
122.5°	1111.0	1123.7	1162.0	1192.5	1201.3
125°	1188.1	1200.2	1236.5	1261.4	1271.7
127.5°	1266.3	1277.4	1311.0	1336.4	1340.7
130°	1338.5	1349.6	1376.5	1402.3	1405.6
132.5°	1406.7	1418.7	1438.9	1463.7	1466.5
135°	1477.4	1485.3	1502.8	1526.1	1526.8
137.5°	1537.5	1548.5	1558.8	1583.0	1585.3
140°	1596.6	1605.6	1613.3	1635.0	1637.1
142.5°	1652.2	1660.3	1664.8	1682.9	1683.6
145°	1703.4	1712.9	1715.9	1727.2	1731.4
147.5°	1752.0	1759.5	1762.5	1768.6	1765.3
150°	1797.1	1801.6	1804.6	1807.6	1805.2
152.5°	1837.7	1839.2	1840.7	1846.7	1839.2
155°	1875.3	1872.3	1873.8	1881.3	1872.3
157.5°	1905.4	1905.4	1903.9	1912.9	1900.9
160°	1932.5	1931.0	1929.5	1938.5	1928.0
162.5°	1958.0	1953.5	1952.0	1962.5	1953.5
165°	1977.6	1973.1	1971.6	1983.6	1973.1
167.5°	1994.1	1988.1	1988.1	2000.1	1988.1
170°	2007.7	2001.6	2001.6	2013.7	2001.6
172.5°	2016.7	2009.2	2010.7	2022.7	2009.2
175°	2024.2	2016.7	2018.2	2028.7	2016.7
177.5°	2027.2	2019.7	2021.2	2033.2	2018.2
180°	2024.2	2024.2	2024.2	2024.2	2024.2

(END OF REPORT)