

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: P1030977

Luminaire Tested: S123DIW-B775D1535UB2750-4F0-XX-W2A-D_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1030977
REPORT IS A COMBINATION OF REPORTS P991991 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_3500K
Description: Define 3 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

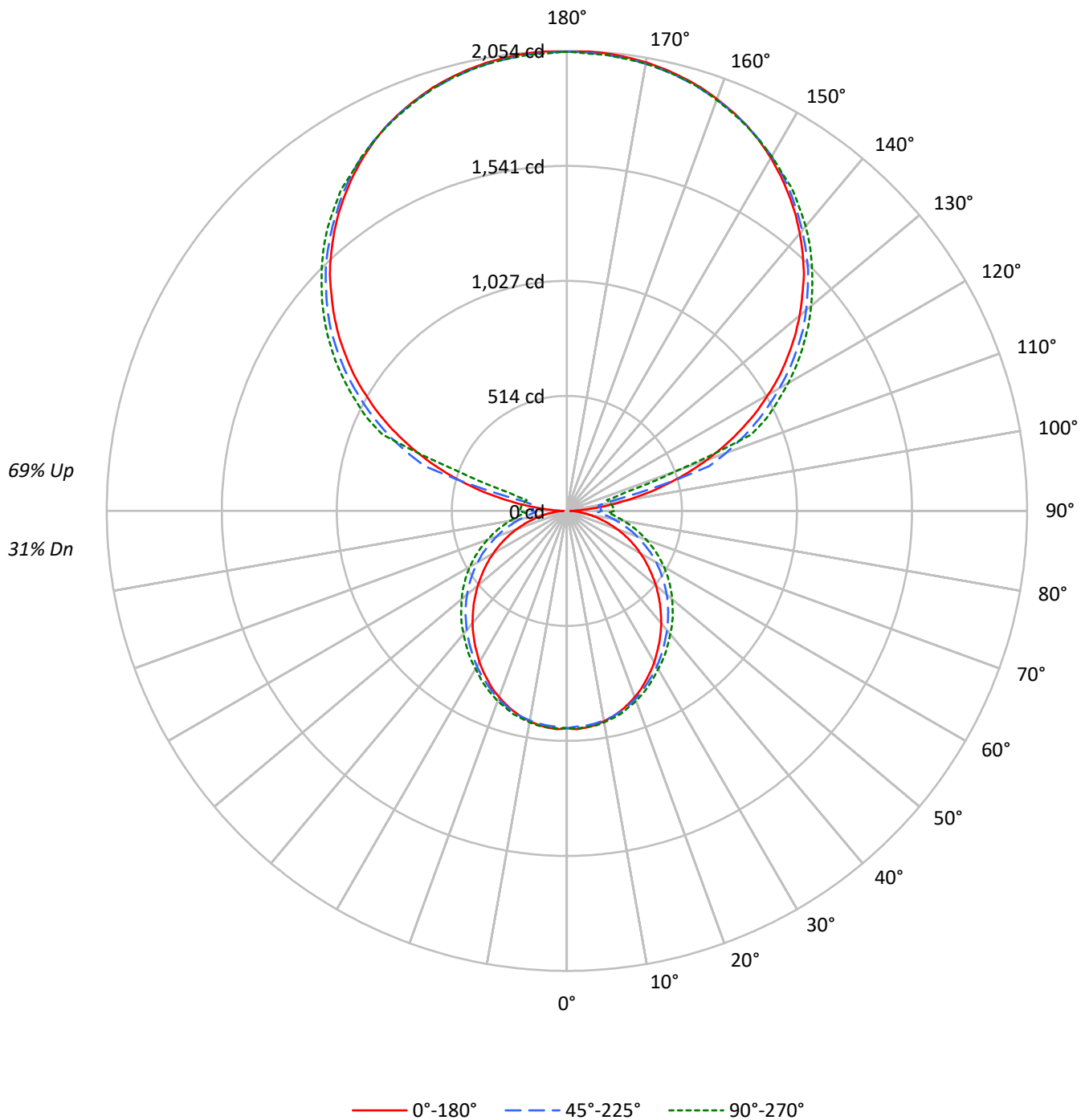
Lumens per Lamp: N/A
Luminaire Lumens: 9516.0 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10444	10444	10444
5°	10473	10138	10130
10°	10375	9863	9788
15°	10238	9560	9426
20°	10043	9222	9036
25°	9803	8842	8633
30°	9558	8496	8228
35°	9281	8135	7899
40°	9019	7805	7550
45°	8728	7485	7263
50°	8440	7167	6951
55°	8121	6842	6666
60°	7808	6510	6371
65°	7487	6155	6028
70°	7003	5758	5674
75°	6394	5305	5309
80°	5679	4846	4891
85°	4976	4475	4593

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8728 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.0	1.0
10°-20°	262.4	2.8
20°-30°	392.4	4.1
30°-40°	468.5	4.9
40°-50°	490.2	5.2
50°-60°	460.0	4.8
60°-70°	384.2	4.0
70°-80°	274.7	2.9
80°-90°	167.6	1.8
90°-100°	175.0	1.8
100°-110°	425.1	4.5
110°-120°	907.1	9.5
120°-130°	1116.3	11.7
130°-140°	1174.7	12.3
140°-150°	1089.1	11.4
150°-160°	876.3	9.2
160°-170°	565.5	5.9
170°-180°	194.9	2.0
0°-30°	746.8	7.8
0°-40°	1215.3	12.8
0°-60°	2165.5	22.8
0°-90°	2992.1	31.4
90°-120°	1507.2	15.8
90°-150°	4887.3	51.4
90°-180°	6524.0	68.6
0°-180°	9516.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	970	970	970	970	970	
5°	971	969	963	971	970	92
15°	925	928	927	938	936	261
25°	835	846	849	862	862	385
35°	719	736	749	765	770	449
45°	588	613	640	660	668	453
55°	448	483	521	550	558	401
65°	310	351	397	429	440	306
75°	168	218	271	306	318	180
85°	52	105	161	197	207	53
90°	15	82	156	198	212	15
95°	104	83	152	195	206	120
105°	462	504	413	173	185	490
115°	857	879	930	971	986	847
125°	1204	1216	1252	1278	1288	1076
135°	1496	1505	1522	1546	1547	1152
145°	1726	1735	1738	1750	1754	1080
155°	1900	1897	1898	1906	1897	875
165°	2003	1999	1997	2009	1999	566
175°	2050	2043	2044	2055	2043	195
180°	2050	2050	2050	2050	2050	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	970.3	970.3	970.3	970.3	970.3
2.5°	975.6	972.4	964.0	972.4	971.4
5°	971.4	969.3	962.9	971.4	970.3
7.5°	964.0	964.0	957.6	968.2	967.1
10°	953.4	955.5	950.2	960.8	958.7
12.5°	940.7	943.9	940.7	950.2	948.1
15°	924.9	928.0	927.0	937.5	936.5
17.5°	905.8	912.2	911.1	920.6	918.5
20°	884.7	891.0	893.1	902.7	903.7
22.5°	862.5	868.8	872.0	884.7	883.6
25°	835.0	845.6	848.8	862.5	862.5
27.5°	808.6	820.2	826.6	838.2	839.2
30°	780.1	793.8	802.2	814.9	814.9
32.5°	748.3	764.2	775.8	789.6	792.7
35°	718.7	735.7	749.4	765.3	769.5
37.5°	687.0	706.1	721.9	739.9	743.1
40°	655.3	674.4	695.5	713.5	717.7
42.5°	620.4	644.8	667.0	687.0	693.4
45°	587.7	613.0	639.5	659.6	668.0
47.5°	552.8	581.3	610.9	633.1	639.5
50°	519.0	548.6	581.3	605.7	613.0
52.5°	483.0	514.8	551.7	577.1	586.6
55°	448.2	483.0	521.1	549.6	558.1
57.5°	414.3	450.3	491.5	520.0	529.5
60°	378.4	416.5	459.8	489.4	501.0
62.5°	344.6	383.7	430.2	459.8	470.4
65°	309.7	350.9	397.4	429.1	439.7
67.5°	274.8	318.2	364.7	399.5	408.0
70°	237.8	283.3	334.0	367.8	378.4
72.5°	204.0	249.4	302.3	337.2	347.7
75°	168.1	217.7	270.6	305.5	318.2
77.5°	137.4	187.1	239.9	276.9	286.4
80°	104.6	156.4	211.4	247.3	257.9
82.5°	76.1	129.0	185.0	220.9	231.5
85°	51.8	104.6	160.7	196.6	207.2
87.5°	31.7	84.6	138.5	174.4	185.0
90°	15.2	82.3	156.0	198.1	211.6
92.5°	47.7	84.0	150.6	196.2	207.2
95°	104.5	83.3	151.8	195.3	205.9
97.5°	179.7	175.0	147.0	190.9	203.1
100°	266.9	331.2	142.3	185.1	197.2
102.5°	366.5	415.9	198.3	177.7	191.3
105°	462.5	504.5	412.9	172.9	185.4
107.5°	563.4	599.3	665.5	459.5	269.4
110°	664.4	695.7	754.6	731.9	522.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	761.9	787.3	844.3	884.4	890.9
115°	856.9	878.7	930.4	971.0	985.5
117.5°	951.3	970.4	1014.0	1051.5	1061.5
120°	1037.0	1056.0	1095.5	1132.0	1139.4
122.5°	1125.4	1138.1	1177.0	1208.0	1216.9
125°	1203.6	1215.8	1252.5	1277.7	1288.2
127.5°	1282.8	1293.9	1327.9	1353.7	1358.0
130°	1355.9	1367.0	1394.3	1420.4	1423.8
132.5°	1424.9	1437.1	1457.6	1482.7	1485.5
135°	1496.5	1504.6	1522.3	1545.9	1546.6
137.5°	1557.4	1568.6	1579.1	1603.6	1605.8
140°	1617.4	1626.5	1634.2	1656.2	1658.4
142.5°	1673.7	1681.8	1686.3	1704.6	1705.3
145°	1725.5	1735.1	1738.1	1749.7	1753.9
147.5°	1774.7	1782.3	1785.4	1791.6	1788.2
150°	1820.4	1825.0	1828.0	1831.1	1828.6
152.5°	1861.5	1863.1	1864.6	1870.7	1863.1
155°	1899.6	1896.6	1898.1	1905.7	1896.6
157.5°	1930.1	1930.1	1928.6	1937.7	1925.5
160°	1957.5	1956.0	1954.5	1963.6	1952.9
162.5°	1983.4	1978.8	1977.3	1988.0	1978.8
165°	2003.2	1998.6	1997.1	2009.3	1998.6
167.5°	2020.0	2013.9	2013.9	2026.1	2013.9
170°	2033.7	2027.6	2027.6	2039.8	2027.6
172.5°	2042.8	2035.2	2036.7	2048.9	2035.2
175°	2050.4	2042.8	2044.3	2055.0	2042.8
177.5°	2053.5	2045.9	2047.4	2059.6	2044.3
180°	2050.4	2050.4	2050.4	2050.4	2050.4

(END OF REPORT)