

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: P1030960

Luminaire Tested: S123DIW-B775D1320UB2750-4F0-XX-W2A-D_2700K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1030960
REPORT IS A COMBINATION OF REPORTS P991923 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIW-B775D1320UB2750-4F0-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

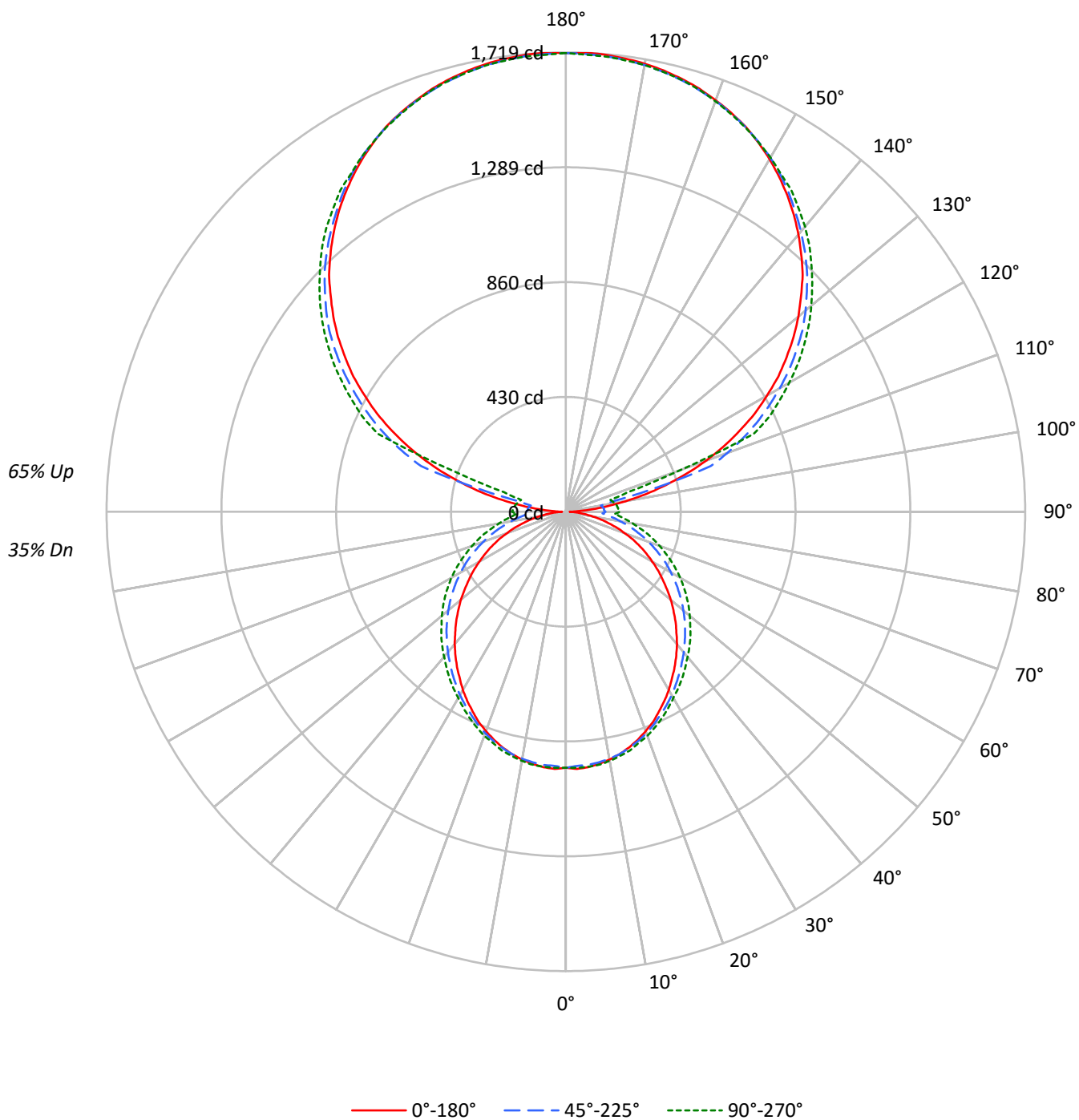
Lumens per Lamp: N/A
Luminaire Lumens: 8456.9 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 78
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	42	42	42
1	94	89	85	81	84	81	77	74	64	62	60	50	48	47	36	35	34
2	85	77	71	66	76	70	65	60	56	52	49	43	41	38	31	30	28
3	77	68	60	54	69	61	55	50	49	45	41	38	35	32	28	25	24
4	71	60	52	46	63	54	47	42	43	38	34	34	30	27	24	22	20
5	65	53	45	39	58	48	41	36	39	34	29	30	26	23	22	19	17
6	59	47	39	33	53	43	36	31	35	29	26	27	23	20	20	17	15
7	55	43	35	29	49	39	32	27	31	26	22	25	21	18	18	15	13
8	51	39	31	26	46	35	28	24	29	23	20	22	19	16	17	14	12
9	47	35	28	23	42	32	25	21	26	21	18	21	17	14	15	13	11
10	44	32	25	20	40	29	23	19	24	19	16	19	15	13	14	12	10

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	1.1
10°-20°	259.1	3.1
20°-30°	387.5	4.6
30°-40°	462.6	5.5
40°-50°	484.0	5.7
50°-60°	454.2	5.4
60°-70°	379.4	4.5
70°-80°	271.3	3.2
80°-90°	164.8	1.9
90°-100°	162.0	1.9
100°-110°	367.2	4.3
110°-120°	767.0	9.1
120°-130°	938.9	11.1
130°-140°	985.4	11.7
140°-150°	912.2	10.8
150°-160°	733.7	8.7
160°-170°	473.5	5.6
170°-180°	163.2	1.9
0°-30°	737.5	8.7
0°-40°	1200.1	14.2
0°-60°	2138.3	25.3
0°-90°	2953.8	34.9
90°-120°	1296.2	15.3
90°-150°	4132.8	48.9
90°-180°	5503.0	65.1
0°-180°	8456.9	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	79	148	189	202	14
95°	89	78	143	184	195	102
105°	388	428	358	161	173	411
115°	718	738	787	825	839	710
125°	1008	1018	1054	1078	1088	901
135°	1253	1260	1276	1299	1300	965
145°	1445	1453	1455	1466	1470	904
155°	1590	1588	1589	1596	1588	733
165°	1677	1673	1672	1682	1673	474
175°	1717	1710	1712	1720	1710	163
180°	1717	1717	1717	1717	1717	

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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°	14.9	78.7	148.5	189.1	202.2
92.5°	41.8	79.1	142.8	186.1	196.8
95°	89.3	77.7	142.8	184.2	194.6
97.5°	152.0	153.9	137.9	179.4	191.1
100°	224.9	283.9	132.9	173.4	185.1
102.5°	308.0	353.9	178.9	166.1	179.0
105°	388.4	427.5	357.6	161.1	173.0
107.5°	472.8	506.2	568.1	399.9	242.2
110°	557.3	586.2	642.0	627.0	453.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	638.9	662.4	716.1	753.6	760.5
115°	718.2	738.3	787.4	825.2	838.6
117.5°	797.2	814.6	856.4	891.6	901.3
120°	868.9	885.6	923.8	958.0	965.3
122.5°	942.9	953.9	991.3	1020.7	1029.3
125°	1008.1	1018.3	1053.7	1078.2	1088.0
127.5°	1074.5	1083.7	1116.1	1140.9	1145.6
130°	1135.7	1144.9	1170.9	1195.8	1199.5
132.5°	1193.3	1203.6	1223.0	1246.9	1250.4
135°	1253.3	1259.8	1276.4	1299.1	1300.4
137.5°	1304.3	1313.4	1323.3	1346.3	1349.1
140°	1354.2	1361.9	1368.9	1389.6	1392.3
142.5°	1401.4	1408.1	1411.9	1429.3	1430.7
145°	1444.8	1452.7	1455.3	1466.1	1470.3
147.5°	1485.9	1492.2	1494.8	1500.4	1498.3
150°	1524.1	1528.0	1530.5	1533.1	1531.3
152.5°	1558.6	1559.8	1561.1	1566.2	1559.8
155°	1590.5	1587.9	1589.2	1595.6	1587.9
157.5°	1616.0	1616.0	1614.7	1622.3	1612.1
160°	1638.9	1637.6	1636.4	1644.0	1635.1
162.5°	1660.6	1656.8	1655.5	1664.4	1656.8
165°	1677.2	1673.4	1672.1	1682.3	1673.4
167.5°	1691.2	1686.1	1686.1	1696.3	1686.1
170°	1702.7	1697.6	1697.6	1707.8	1697.6
172.5°	1710.3	1704.0	1705.2	1715.4	1704.0
175°	1716.7	1710.3	1711.6	1720.5	1710.3
177.5°	1719.3	1712.9	1714.2	1724.4	1711.6
180°	1716.7	1716.7	1716.7	1716.7	1716.7

(END OF REPORT)