

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: P1029640

Luminaire Tested: S122DIW-B675D1440UB2750-4F0-XX-W2A-D_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029640
REPORT IS A COMBINATION OF REPORTS P986492 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B675D1440UB2750-4F0-XX-W2A-D_2700K
Description: Define 2 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

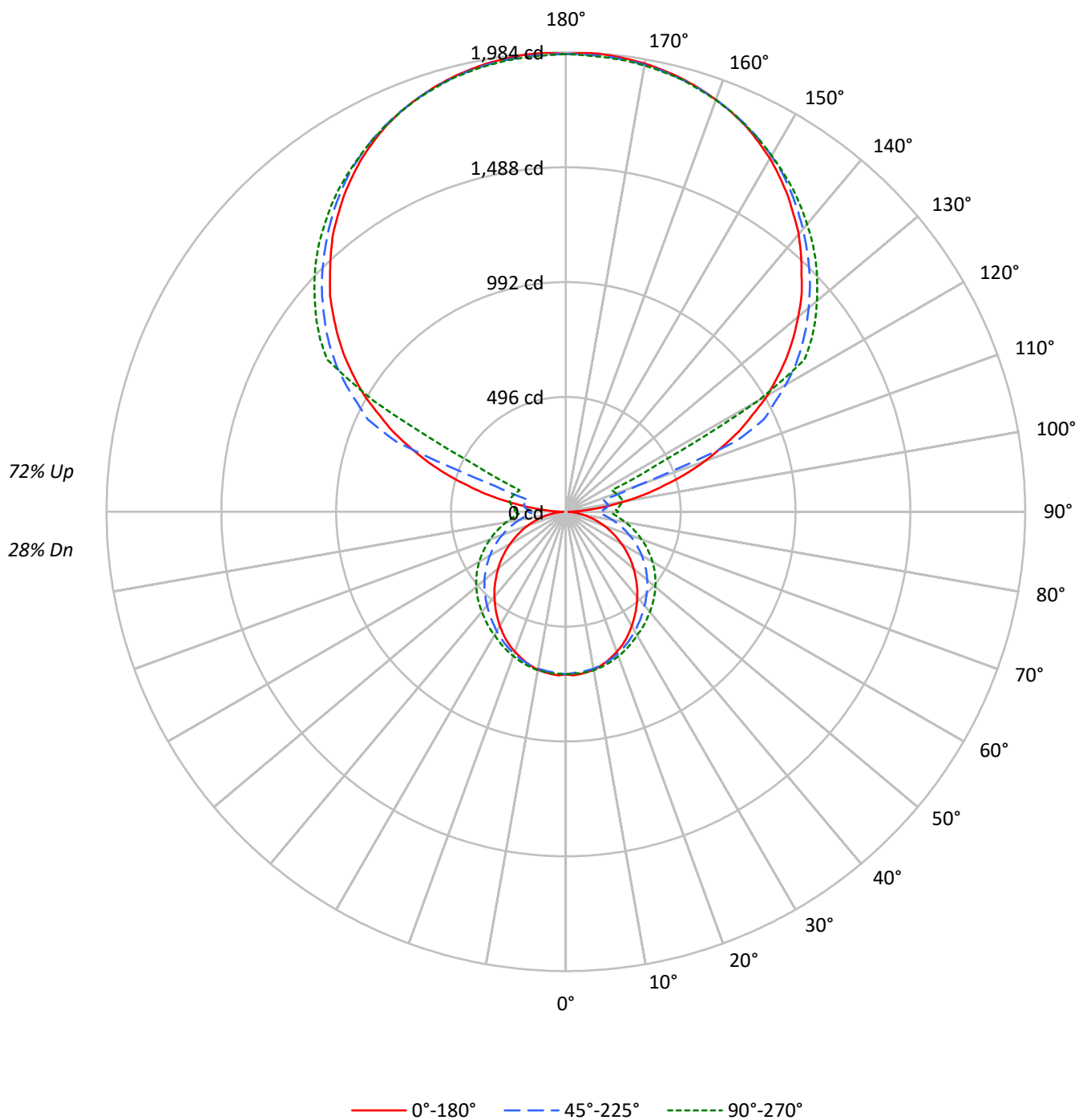
Lumens per Lamp: N/A
Luminaire Lumens: 8479.0 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36			28
1	92	87	83	80	82	78	75	72	61	59	56	45	44	42	30	30	29			22
2	83	76	70	64	74	68	63	58	53	49	46	39	37	34	26	25	23			18
3	76	66	59	53	67	59	53	48	46	42	38	34	31	29	23	21	20			15
4	69	58	51	45	61	52	46	40	41	36	32	30	27	24	20	18	17			12
5	63	52	44	38	56	46	40	34	36	31	27	27	24	21	18	16	14			11
6	58	46	38	32	52	41	35	30	33	28	24	24	21	18	16	14	12			9
7	54	42	34	28	48	37	31	26	29	24	21	22	18	16	15	13	11			8
8	50	37	30	25	44	34	27	22	27	22	18	20	16	14	14	11	10			7
9	46	34	27	22	41	31	24	20	24	19	16	18	15	12	13	10	9			6
10	43	31	24	19	38	28	22	18	22	18	14	17	13	11	12	9	8			6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11114	11114	11114
5°	11164	10640	10580
10°	11090	10272	10121
15°	10933	9890	9652
20°	10735	9489	9204
25°	10540	9106	8801
30°	10267	8717	8399
35°	9991	8341	8105
40°	9701	8016	7813
45°	9422	7722	7558
50°	9125	7451	7307
55°	8812	7162	7051
60°	8430	6861	6782
65°	8031	6517	6471
70°	7579	6146	6139
75°	7004	5777	5822
80°	6092	5389	5498
85°	5170	5025	5216

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9422 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.6	0.8
10°-20°	190.9	2.3
20°-30°	289.2	3.4
30°-40°	352.2	4.2
40°-50°	379.0	4.5
50°-60°	368.0	4.3
60°-70°	321.4	3.8
70°-80°	247.4	2.9
80°-90°	169.2	2.0
90°-100°	179.5	2.1
100°-110°	326.5	3.9
110°-120°	699.7	8.3
120°-130°	1099.8	13.0
130°-140°	1148.5	13.5
140°-150°	1057.6	12.5
150°-160°	848.5	10.0
160°-170°	546.8	6.4
170°-180°	188.2	2.2
0°-30°	546.7	6.4
0°-40°	898.9	10.6
0°-60°	1645.9	19.4
0°-90°	2383.8	28.1
90°-120°	1205.8	14.2
90°-150°	4511.7	53.2
90°-180°	6095.0	71.9
0°-180°	8479.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	702	702	702	702	702	
5°	704	701	695	701	700	67
15°	672	674	674	683	682	189
25°	610	618	627	639	642	281
35°	526	543	563	585	592	329
45°	431	459	494	526	536	333
55°	331	367	420	457	470	296
65°	226	276	336	378	391	224
75°	125	182	247	291	304	132
85°	37	100	165	208	222	39
90°	12	86	163	211	226	12
95°	101	102	173	219	229	116
105°	440	512	175	226	243	471
115°	827	862	944	312	220	814
125°	1165	1184	1244	1281	1294	1040
135°	1440	1463	1486	1522	1527	1113
145°	1670	1668	1692	1709	1707	1045
155°	1838	1826	1843	1851	1840	847
165°	1937	1929	1933	1943	1933	547
175°	1982	1972	1974	1984	1970	189
180°	1977	1977	1977	1977	1977	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	702.1	702.1	702.1	702.1	702.1
2.5°	707.2	704.1	697.0	702.1	700.1
5°	704.1	701.1	695.0	701.1	700.1
7.5°	699.1	697.0	691.9	699.1	698.0
10°	693.0	690.9	687.9	696.0	695.0
12.5°	682.8	683.8	681.8	689.9	688.9
15°	671.6	673.6	673.6	682.8	681.8
17.5°	657.3	661.4	664.5	673.6	673.6
20°	643.1	648.2	652.2	663.4	663.4
22.5°	627.8	633.9	640.0	651.2	653.3
25°	610.5	617.7	626.8	639.0	642.1
27.5°	590.2	601.4	611.5	626.8	628.8
30°	569.8	583.1	596.3	612.6	615.6
32.5°	547.4	562.7	579.0	598.3	604.4
35°	526.1	543.4	562.7	585.1	592.2
37.5°	502.7	522.0	546.4	570.8	578.0
40°	479.3	501.7	529.1	555.6	564.7
42.5°	456.9	479.3	511.8	541.3	550.5
45°	431.4	458.9	494.5	526.1	536.2
47.5°	407.0	436.5	477.2	509.8	521.0
50°	381.6	413.1	458.9	493.5	504.7
52.5°	357.2	390.7	439.6	475.2	487.4
55°	330.7	367.3	420.2	456.9	470.1
57.5°	305.3	346.0	398.9	438.6	451.8
60°	277.8	321.5	379.5	418.2	432.5
62.5°	253.4	299.2	357.2	398.9	412.1
65°	225.9	275.8	335.8	377.5	390.7
67.5°	201.5	253.4	314.4	356.1	370.4
70°	175.0	227.9	291.0	334.8	347.0
72.5°	150.6	205.5	269.7	312.4	327.7
75°	125.2	182.1	247.3	291.0	304.2
77.5°	100.7	159.8	225.9	269.7	283.9
80°	76.3	138.4	204.5	247.3	261.5
82.5°	56.0	117.0	184.2	226.9	240.1
85°	36.6	99.7	164.8	207.6	221.8
87.5°	22.4	83.4	148.6	190.3	203.5
90°	11.6	86.4	162.9	210.8	225.8
92.5°	45.0	93.1	159.5	202.0	215.7
95°	101.1	101.8	172.8	218.7	229.4
97.5°	174.5	101.0	182.9	224.8	238.5
100°	260.3	102.0	183.3	232.4	246.5
102.5°	353.8	384.5	179.0	231.4	246.9
105°	440.0	512.5	174.8	226.1	243.0
107.5°	541.6	601.8	170.5	220.9	237.8
110°	637.9	688.2	324.7	214.1	231.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	729.5	771.5	794.0	209.9	225.4
115°	826.8	862.3	943.8	311.9	220.1
117.5°	910.2	946.9	1013.9	839.9	475.2
120°	1004.6	1030.0	1096.5	1142.2	960.2
122.5°	1084.7	1108.6	1174.8	1210.9	1221.5
125°	1165.2	1183.8	1243.5	1281.1	1294.4
127.5°	1239.6	1258.6	1307.5	1347.2	1357.9
130°	1309.7	1331.5	1368.7	1408.8	1415.5
132.5°	1381.2	1398.8	1429.8	1466.1	1472.8
135°	1440.3	1463.2	1486.2	1522.0	1527.2
137.5°	1503.2	1520.4	1539.8	1573.4	1576.3
140°	1564.8	1575.2	1592.9	1622.1	1621.1
142.5°	1616.3	1625.3	1643.9	1667.5	1665.5
145°	1669.6	1668.2	1692.5	1708.6	1706.6
147.5°	1716.8	1712.5	1736.9	1745.0	1742.4
150°	1762.6	1752.6	1775.5	1784.1	1776.9
152.5°	1801.2	1789.8	1811.3	1819.8	1809.8
155°	1838.4	1825.6	1842.7	1851.3	1839.9
157.5°	1868.5	1857.0	1869.9	1879.9	1868.5
160°	1894.2	1885.7	1894.2	1902.8	1892.8
162.5°	1917.1	1908.5	1915.7	1925.7	1912.8
165°	1937.2	1928.6	1932.9	1942.9	1932.9
167.5°	1952.9	1944.3	1948.6	1958.6	1945.7
170°	1965.8	1957.2	1960.1	1970.1	1957.2
172.5°	1974.4	1965.8	1968.6	1978.7	1965.8
175°	1981.5	1971.5	1974.4	1984.4	1970.1
177.5°	1984.4	1974.4	1975.8	1985.8	1972.9
180°	1977.2	1977.2	1977.2	1977.2	1977.2

(END OF REPORT)