

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: P1031905

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

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1031905
REPORT IS A COMBINATION OF REPORTS P992004 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-D
Description: Define 3 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

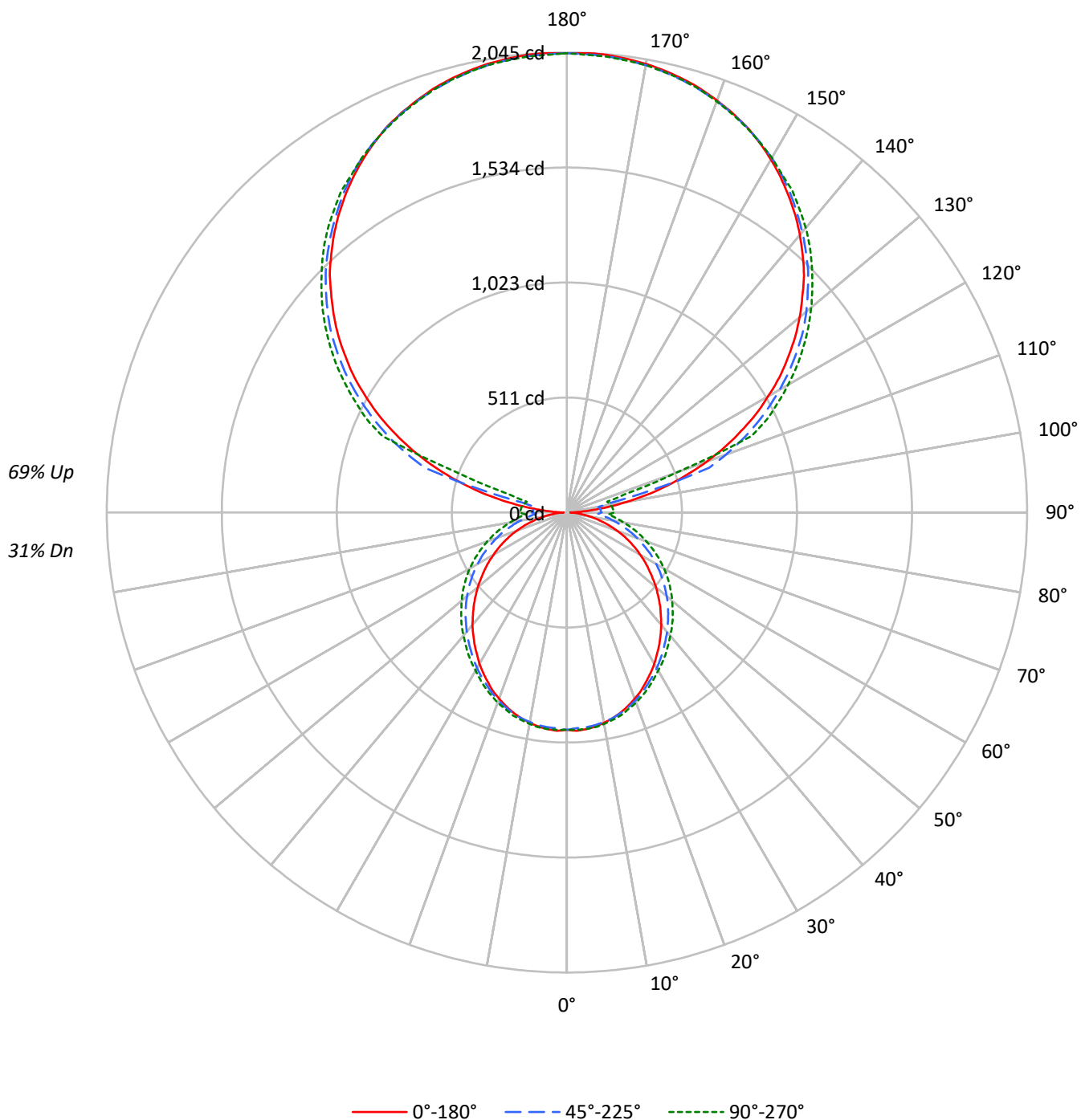
Lumens per Lamp: N/A
Luminaire Lumens: 9476.0 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10399	10399	10399
5°	10428	10094	10086
10°	10330	9820	9746
15°	10194	9519	9385
20°	9999	9182	8997
25°	9760	8803	8596
30°	9516	8460	8193
35°	9243	8101	7865
40°	8980	7771	7518
45°	8691	7453	7232
50°	8404	7136	6922
55°	8085	6814	6637
60°	7775	6482	6345
65°	7455	6129	6002
70°	6973	5733	5650
75°	6364	5281	5285
80°	5657	4825	4870
85°	4956	4456	4573

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8691 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.6	1.0
10°-20°	261.3	2.8
20°-30°	390.7	4.1
30°-40°	466.5	4.9
40°-50°	488.1	5.2
50°-60°	458.0	4.8
60°-70°	382.6	4.0
70°-80°	273.6	2.9
80°-90°	166.9	1.8
90°-100°	174.3	1.8
100°-110°	423.3	4.5
110°-120°	903.3	9.5
120°-130°	1111.6	11.7
130°-140°	1169.8	12.3
140°-150°	1084.6	11.4
150°-160°	872.6	9.2
160°-170°	563.2	5.9
170°-180°	194.1	2.0
0°-30°	743.6	7.8
0°-40°	1210.1	12.8
0°-60°	2156.2	22.8
0°-90°	2979.2	31.4
90°-120°	1500.9	15.8
90°-150°	4866.9	51.4
90°-180°	6497.0	68.6
0°-180°	9476.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	966	966	966	966	966	
5°	967	965	959	967	966	92
15°	921	924	923	934	932	259
25°	831	842	845	859	859	383
35°	716	732	746	762	766	448
45°	585	610	637	657	665	451
55°	446	481	519	547	556	400
65°	308	349	396	427	438	305
75°	167	217	269	304	317	179
85°	52	104	160	196	206	53
90°	15	82	155	197	211	15
95°	104	83	151	194	205	120
105°	460	502	411	172	185	488
115°	853	875	927	967	982	843
125°	1199	1211	1247	1272	1283	1071
135°	1490	1498	1516	1540	1540	1147
145°	1718	1728	1731	1742	1747	1076
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°	966.1	966.1	966.1	966.1	966.1
2.5°	971.4	968.2	959.8	968.2	967.2
5°	967.2	965.1	958.8	967.2	966.1
7.5°	959.8	959.8	953.5	964.0	963.0
10°	949.3	951.4	946.1	956.7	954.6
12.5°	936.7	939.8	936.7	946.1	944.0
15°	920.9	924.0	923.0	933.5	932.5
17.5°	901.9	908.3	907.2	916.7	914.6
20°	880.9	887.2	889.3	898.8	899.8
22.5°	858.8	865.1	868.3	880.9	879.8
25°	831.4	842.0	845.1	858.8	858.8
27.5°	805.1	816.7	823.0	834.6	835.6
30°	776.7	790.4	798.8	811.4	811.4
32.5°	745.1	760.9	772.5	786.2	789.3
35°	715.7	732.5	746.2	762.0	766.2
37.5°	684.1	703.0	718.8	736.7	739.9
40°	652.5	671.5	692.5	710.4	714.6
42.5°	617.8	642.0	664.1	684.1	690.4
45°	585.2	610.4	636.7	656.7	665.1
47.5°	550.4	578.8	608.3	630.4	636.7
50°	516.8	546.2	578.8	603.1	610.4
52.5°	481.0	512.5	549.4	574.6	584.1
55°	446.2	481.0	518.9	547.3	555.7
57.5°	412.6	448.3	489.4	517.8	527.3
60°	376.8	414.7	457.8	487.3	498.9
62.5°	343.1	382.0	428.3	457.8	468.3
65°	308.4	349.4	395.7	427.3	437.8
67.5°	273.6	316.8	363.1	397.8	406.2
70°	236.8	282.1	332.6	366.3	376.8
72.5°	203.1	248.4	301.0	335.7	346.3
75°	167.3	216.8	269.4	304.2	316.8
77.5°	136.8	186.3	238.9	275.7	285.2
80°	104.2	155.8	210.5	246.3	256.8
82.5°	75.8	128.4	184.2	220.0	230.5
85°	51.6	104.2	160.0	195.8	206.3
87.5°	31.6	84.2	137.9	173.7	184.2
90°	15.2	82.0	155.3	197.2	210.7
92.5°	47.5	83.7	149.9	195.3	206.3
95°	104.1	82.9	151.2	194.4	204.9
97.5°	178.9	174.3	146.4	190.2	202.2
100°	265.9	329.9	141.7	184.3	196.3
102.5°	364.9	414.1	197.5	176.9	190.4
105°	460.5	502.5	411.1	172.1	184.6
107.5°	561.1	596.9	662.7	457.5	268.3
110°	661.7	692.8	751.6	728.8	520.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	758.7	784.1	840.7	880.8	887.2
115°	853.3	875.0	926.6	966.9	981.5
117.5°	947.4	966.4	1009.8	1047.1	1057.0
120°	1032.7	1051.7	1090.9	1127.3	1134.7
122.5°	1120.7	1133.4	1172.1	1202.9	1211.8
125°	1198.6	1210.7	1247.3	1272.4	1282.8
127.5°	1277.5	1288.5	1322.4	1348.1	1352.3
130°	1350.3	1361.3	1388.5	1414.6	1417.8
132.5°	1419.0	1431.1	1451.5	1476.4	1479.3
135°	1490.3	1498.4	1516.0	1539.5	1540.2
137.5°	1551.0	1562.1	1572.4	1596.9	1599.1
140°	1610.7	1619.8	1627.4	1649.3	1651.5
142.5°	1666.8	1674.8	1679.3	1697.6	1698.2
145°	1718.4	1727.9	1730.9	1742.4	1746.6
147.5°	1767.3	1774.9	1777.9	1784.2	1780.8
150°	1812.8	1817.4	1820.4	1823.5	1821.0
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)