

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: P1033693

Luminaire Tested: S124DIW-B795D1050UB35-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1033693
REPORT IS A COMBINATION OF REPORTS P997984 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIW-B795D1050UB35-4F0-XX-W2A-F
Description: Define 4 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

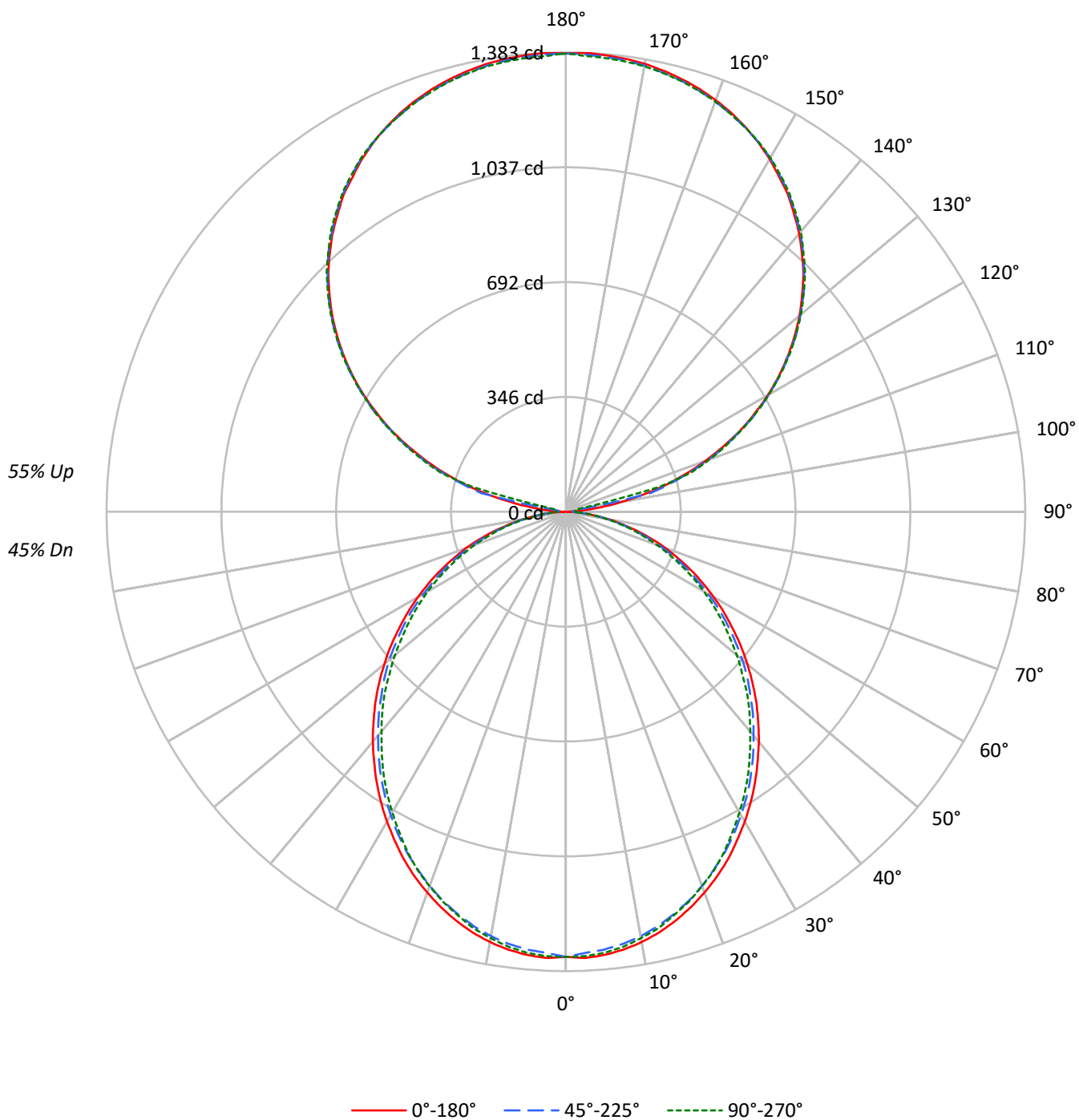
Lumens per Lamp: N/A
Luminaire Lumens: 7712.0 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 67.4
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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51
1	97	92	88	85	88	85	81	78	70	68	66	57	56	54	45	44	43
2	88	81	74	69	80	74	69	64	62	58	54	50	48	45	40	38	36
3	80	71	63	58	73	65	59	54	54	50	46	44	41	38	35	33	31
4	73	63	55	49	67	58	51	45	48	43	39	40	36	33	31	29	27
5	67	56	48	42	61	51	44	39	43	38	34	35	31	28	28	25	23
6	62	50	42	36	57	46	39	34	39	33	29	32	28	25	26	23	20
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	23	20	18
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	22	19	16
9	49	37	30	25	45	35	28	23	29	24	20	25	20	18	20	17	15
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10929	10929	10929
5°	10938	10615	10627
10°	10845	10320	10247
15°	10690	9969	9820
20°	10491	9591	9376
25°	10268	9190	8898
30°	9998	8757	8374
35°	9719	8314	7867
40°	9427	7837	7328
45°	9122	7359	6824
50°	8785	6895	6266
55°	8417	6353	5711
60°	8041	5760	5134
65°	7611	5148	4484
70°	7117	4409	3786
75°	6374	3555	3032
80°	5433	2570	2133
85°	4221	1430	1149

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9122 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.3	1.6
10°-20°	355.9	4.6
20°-30°	523.8	6.8
30°-40°	608.9	7.9
40°-50°	608.8	7.9
50°-60°	532.5	6.9
60°-70°	395.3	5.1
70°-80°	224.3	2.9
80°-90°	67.1	0.9
90°-100°	45.8	0.6
100°-110°	301.6	3.9
110°-120°	575.9	7.5
120°-130°	731.1	9.5
130°-140°	782.1	10.1
140°-150°	731.3	9.5
150°-160°	589.8	7.6
160°-170°	380.4	4.9
170°-180°	131.1	1.7
0°-30°	1006.0	13.0
0°-40°	1614.9	20.9
0°-60°	2756.1	35.7
0°-90°	3442.8	44.6
90°-120°	923.3	12.0
90°-150°	3167.9	41.1
90°-180°	4269.0	55.4
0°-180°	7712.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1340	1340	1340	1340	1340	
5°	1339	1335	1323	1335	1333	127
15°	1275	1270	1254	1261	1258	359
25°	1154	1147	1132	1133	1129	531
35°	993	986	971	963	958	621
45°	811	803	786	774	771	625
55°	613	610	595	582	576	549
65°	416	410	400	389	383	411
75°	221	216	210	206	205	235
85°	58	58	56	56	55	62
90°	3	14	23	29	31	7
95°	57	22	23	29	30	70
105°	311	317	322	331	294	325
115°	580	583	582	584	584	571
125°	815	819	817	820	821	728
135°	1011	1010	1014	1016	1018	779
145°	1166	1169	1169	1170	1172	729
155°	1278	1280	1276	1281	1278	590
165°	1349	1344	1344	1352	1342	381
175°	1380	1374	1374	1384	1371	131
180°	1380	1380	1380	1380	1380	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1340.2	1340.2	1340.2	1340.2	1340.2
2.5°	1344.5	1341.3	1329.5	1340.2	1339.2
5°	1339.2	1334.9	1323.1	1334.9	1332.7
7.5°	1329.5	1325.2	1312.3	1322.0	1320.9
10°	1315.5	1311.2	1297.3	1305.9	1303.7
12.5°	1297.3	1293.0	1278.0	1287.6	1284.4
15°	1274.7	1270.4	1254.3	1260.8	1257.6
17.5°	1249.0	1243.6	1228.6	1232.9	1230.7
20°	1220.0	1214.6	1198.5	1201.7	1199.6
22.5°	1188.8	1181.3	1165.2	1171.6	1167.3
25°	1154.5	1146.9	1131.9	1133.0	1128.7
27.5°	1115.8	1108.3	1094.3	1092.2	1086.8
30°	1077.1	1068.5	1054.6	1050.3	1044.9
32.5°	1036.3	1028.8	1013.8	1008.4	1003.0
35°	993.4	985.9	970.8	963.3	957.9
37.5°	948.3	941.8	925.7	918.2	910.7
40°	904.2	895.6	879.5	868.8	863.4
42.5°	857.0	852.7	834.4	821.5	818.3
45°	810.8	803.3	786.1	774.3	771.1
47.5°	762.5	757.1	741.0	728.1	719.5
50°	713.1	708.8	693.7	678.7	672.3
52.5°	664.8	659.4	643.3	630.4	621.8
55°	613.2	610.0	594.9	582.1	575.6
57.5°	564.9	561.7	546.6	533.7	527.3
60°	514.4	509.0	495.1	485.4	480.0
62.5°	465.0	460.7	445.7	437.1	431.7
65°	415.6	410.2	399.5	388.8	383.4
67.5°	365.1	360.8	350.1	339.4	338.3
70°	319.0	311.4	302.8	294.3	291.0
72.5°	269.6	262.0	255.6	249.1	245.9
75°	221.2	215.9	210.5	206.2	205.1
77.5°	174.0	171.8	166.5	165.4	162.2
80°	132.1	128.9	126.7	124.6	123.5
82.5°	91.3	90.2	90.2	89.1	88.1
85°	58.0	58.0	55.8	55.8	54.8
87.5°	27.9	26.8	25.8	25.8	25.8
90°	3.1	14.4	22.7	28.9	31.0
92.5°	15.5	13.4	21.7	27.9	27.9
95°	56.8	21.7	22.7	28.9	29.9
97.5°	108.4	131.1	22.7	27.9	28.9
100°	169.2	187.8	45.4	27.9	28.9
102.5°	237.3	249.7	262.1	29.9	29.9
105°	310.6	316.8	322.0	331.2	294.1
107.5°	377.7	380.8	388.0	393.2	397.3
110°	445.8	448.9	455.1	457.1	460.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	511.8	518.0	520.1	519.0	523.2
115°	579.9	583.0	582.0	584.1	584.1
117.5°	640.8	644.9	648.0	647.0	647.0
120°	702.7	706.9	705.8	707.9	705.8
122.5°	760.5	762.6	764.6	765.7	763.6
125°	815.2	819.3	817.3	820.4	821.4
127.5°	867.8	868.9	874.0	873.0	872.0
130°	918.4	919.4	922.5	923.6	923.6
132.5°	964.8	966.9	971.0	972.1	971.0
135°	1011.3	1010.2	1014.4	1016.4	1018.5
137.5°	1052.5	1052.5	1057.7	1059.8	1058.7
140°	1092.8	1094.9	1096.9	1100.0	1101.0
142.5°	1128.9	1133.0	1134.1	1136.1	1136.1
145°	1166.1	1169.1	1169.1	1170.2	1172.2
147.5°	1194.9	1201.1	1200.1	1201.1	1202.2
150°	1226.9	1231.1	1230.0	1230.0	1231.1
152.5°	1253.8	1256.9	1254.8	1256.9	1255.8
155°	1278.5	1279.6	1276.5	1280.6	1277.5
157.5°	1300.2	1300.2	1296.1	1301.2	1296.1
160°	1318.8	1315.7	1314.6	1320.8	1314.6
162.5°	1335.3	1331.2	1330.1	1336.3	1329.1
165°	1348.7	1343.5	1343.5	1351.8	1342.5
167.5°	1360.1	1354.9	1353.9	1363.1	1352.8
170°	1369.3	1363.1	1364.2	1372.4	1362.1
172.5°	1375.5	1369.3	1370.4	1378.6	1367.3
175°	1379.7	1373.5	1374.5	1383.8	1371.4
177.5°	1382.8	1375.5	1377.6	1385.9	1373.5
180°	1379.7	1379.7	1379.7	1379.7	1379.7

(END OF REPORT)