

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: P1033361

Luminaire Tested: S124DIW-B1195D770UB30-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1033361
REPORT IS A COMBINATION OF REPORTS P997246 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIW-B1195D770UB30-4F0-XX-W2A-D
Description: Define 4 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

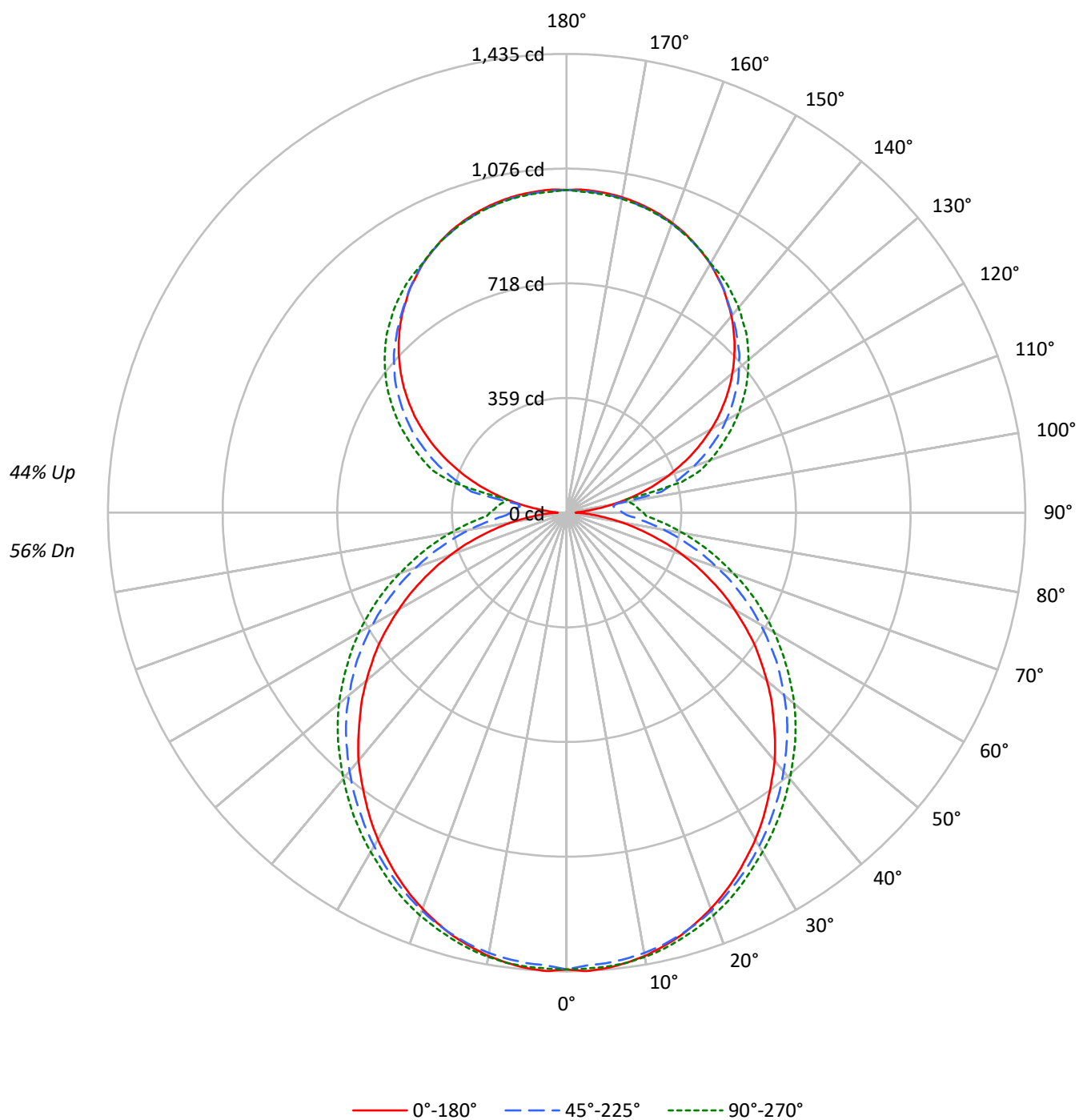
Lumens per Lamp: N/A
Luminaire Lumens: 7998.0 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 84.5
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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62
1	98	93	89	85	91	87	83	79	75	72	69	63	61	59	53	51	50
2	89	81	74	68	82	75	69	64	65	60	56	55	52	49	46	43	41
3	81	71	63	56	75	66	59	53	57	51	47	48	44	41	40	37	35
4	74	62	54	47	68	58	51	45	50	44	39	43	38	34	36	32	29
5	68	55	47	40	62	52	44	38	45	39	34	38	33	30	32	28	25
6	62	49	41	35	57	46	39	33	40	34	29	34	30	26	29	25	22
7	57	45	36	31	53	42	34	29	36	30	26	31	26	23	26	23	20
8	53	40	32	27	49	38	31	26	33	27	23	29	24	20	24	20	18
9	50	37	29	24	46	35	28	23	30	24	20	26	21	18	22	19	16
10	46	34	26	21	43	32	25	20	28	22	18	24	20	16	21	17	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11653	11653	11653
5°	11685	11349	11370
10°	11609	11126	11094
15°	11501	10875	10783
20°	11339	10603	10481
25°	11158	10303	10156
30°	10962	10006	9823
35°	10739	9702	9528
40°	10561	9411	9221
45°	10298	9137	8950
50°	10073	8827	8665
55°	9841	8527	8336
60°	9481	8155	8027
65°	9085	7753	7654
70°	8605	7294	7225
75°	7931	6784	6815
80°	7173	6263	6384
85°	6171	5740	6037

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10298 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.4	1.7
10°-20°	387.9	4.9
20°-30°	586.6	7.3
30°-40°	709.6	8.9
40°-50°	750.2	9.4
50°-60°	706.0	8.8
60°-70°	585.9	7.3
70°-80°	411.1	5.1
80°-90°	233.8	2.9
90°-100°	171.5	2.1
100°-110°	322.9	4.0
110°-120°	490.0	6.1
120°-130°	573.6	7.2
130°-140°	589.0	7.4
140°-150°	538.5	6.7
150°-160°	431.6	5.4
160°-170°	278.3	3.5
170°-180°	95.9	1.2
0°-30°	1109.9	13.9
0°-40°	1819.6	22.8
0°-60°	3275.8	41.0
0°-90°	4506.7	56.3
90°-120°	984.3	12.3
90°-150°	2685.4	33.6
90°-180°	3491.0	43.6
0°-180°	7998.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1429	1429	1429	1429	1429	
5°	1431	1426	1415	1427	1426	136
15°	1371	1373	1368	1383	1381	386
25°	1255	1264	1269	1287	1288	578
35°	1098	1117	1133	1155	1160	687
45°	915	946	976	1003	1011	707
55°	717	750	798	830	840	639
65°	496	547	602	642	654	492
75°	275	334	402	446	461	292
85°	85	152	224	272	288	88
90°	28	100	175	226	240	20
95°	62	90	156	204	219	68
105°	242	278	341	388	374	254
115°	434	451	501	538	549	428
125°	603	604	643	676	686	539
135°	743	742	757	784	795	573
145°	855	856	856	866	874	534
155°	936	936	934	937	935	431
165°	987	983	983	989	982	279
175°	1010	1005	1006	1013	1004	96
180°	1010	1010	1010	1010	1010	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1429.0	1429.0	1429.0	1429.0	1429.0
2.5°	1435.4	1430.6	1417.8	1429.0	1427.4
5°	1430.6	1425.8	1414.6	1427.4	1425.8
7.5°	1421.0	1417.8	1408.2	1422.6	1421.0
10°	1408.2	1406.6	1398.6	1413.0	1411.4
12.5°	1390.6	1390.6	1385.8	1398.6	1398.6
15°	1371.4	1373.0	1368.2	1382.6	1381.0
17.5°	1345.8	1350.6	1349.0	1363.4	1361.8
20°	1318.6	1323.4	1325.0	1341.0	1341.0
22.5°	1288.2	1294.6	1297.8	1313.8	1317.0
25°	1254.6	1264.2	1269.0	1286.6	1288.2
27.5°	1217.8	1232.2	1238.6	1254.6	1256.2
30°	1181.0	1193.8	1205.0	1222.6	1225.8
32.5°	1140.9	1157.0	1169.8	1190.6	1193.8
35°	1097.7	1116.9	1132.9	1155.4	1160.2
37.5°	1054.5	1076.9	1096.1	1118.5	1123.3
40°	1012.9	1033.7	1056.1	1080.1	1086.5
42.5°	964.9	988.9	1016.1	1043.3	1048.1
45°	915.3	945.7	976.1	1003.3	1011.3
47.5°	868.9	899.3	934.5	961.7	971.3
50°	817.7	852.9	888.1	920.1	929.7
52.5°	766.5	801.7	843.3	875.3	884.9
55°	716.9	750.5	798.5	830.5	840.1
57.5°	660.9	702.5	748.9	787.3	795.3
60°	606.5	648.1	700.9	737.7	750.5
62.5°	553.7	600.1	652.9	689.7	702.5
65°	496.1	547.3	601.7	641.7	654.5
67.5°	441.7	496.1	553.7	593.7	606.5
70°	385.7	440.1	500.9	544.1	555.3
72.5°	331.2	387.3	452.9	494.5	507.3
75°	275.2	334.4	401.7	446.5	460.9
77.5°	222.4	284.8	355.2	400.1	416.1
80°	174.4	238.4	308.8	356.8	369.6
82.5°	126.4	193.6	264.0	313.6	328.0
85°	84.8	152.0	224.0	272.0	288.0
87.5°	52.8	118.4	188.8	235.2	249.6
90°	27.9	100.2	175.0	225.9	240.3
92.5°	35.3	89.8	164.7	214.0	226.8
95°	62.3	89.5	155.8	203.5	218.7
97.5°	98.5	161.5	147.8	193.2	208.3
100°	141.4	196.6	154.8	185.2	197.1
102.5°	191.3	235.5	305.4	177.1	189.9
105°	241.7	278.2	341.2	388.0	373.6
107.5°	290.8	320.2	381.5	425.3	439.5
110°	339.0	363.7	424.2	462.5	477.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	385.7	409.5	463.8	498.2	514.0
115°	434.0	450.6	501.1	537.8	549.0
117.5°	478.5	491.1	541.4	574.2	587.0
120°	522.2	530.0	575.7	609.2	620.5
122.5°	564.5	566.0	610.7	643.5	653.2
125°	602.9	604.3	642.8	675.5	685.9
127.5°	641.4	640.6	676.4	704.4	714.9
130°	676.8	676.0	703.8	733.4	743.0
132.5°	710.8	710.7	732.9	760.9	769.7
135°	743.2	742.4	756.7	783.8	794.9
137.5°	773.4	771.8	782.0	807.5	814.7
140°	802.8	802.7	805.9	828.9	837.7
142.5°	827.7	830.7	829.8	849.0	855.4
145°	854.9	855.5	855.5	865.9	873.8
147.5°	876.0	878.9	878.2	880.5	887.7
150°	899.4	900.8	900.1	900.1	900.8
152.5°	917.4	919.7	918.2	919.7	918.9
155°	935.6	936.3	934.0	937.1	934.8
157.5°	951.4	951.4	948.4	952.2	948.4
160°	965.0	962.7	962.0	966.5	962.0
162.5°	977.1	974.1	973.3	977.8	972.6
165°	986.9	983.1	983.1	989.2	982.4
167.5°	995.2	991.4	990.7	997.5	989.9
170°	1002.0	997.5	998.2	1004.3	996.7
172.5°	1006.5	1002.0	1002.8	1008.8	1000.5
175°	1009.6	1005.0	1005.8	1012.6	1003.5
177.5°	1011.8	1006.5	1008.0	1014.1	1005.0
180°	1009.6	1009.6	1009.6	1009.6	1009.6

(END OF REPORT)