

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: P1034472

Luminaire Tested: S125DIW-B375D1050UB2750-4F0-XX-W2A-D_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034472
REPORT IS A COMBINATION OF REPORTS P1003399 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B375D1050UB2750-4F0-XX-W2A-D_3500K
Description: Define 5 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

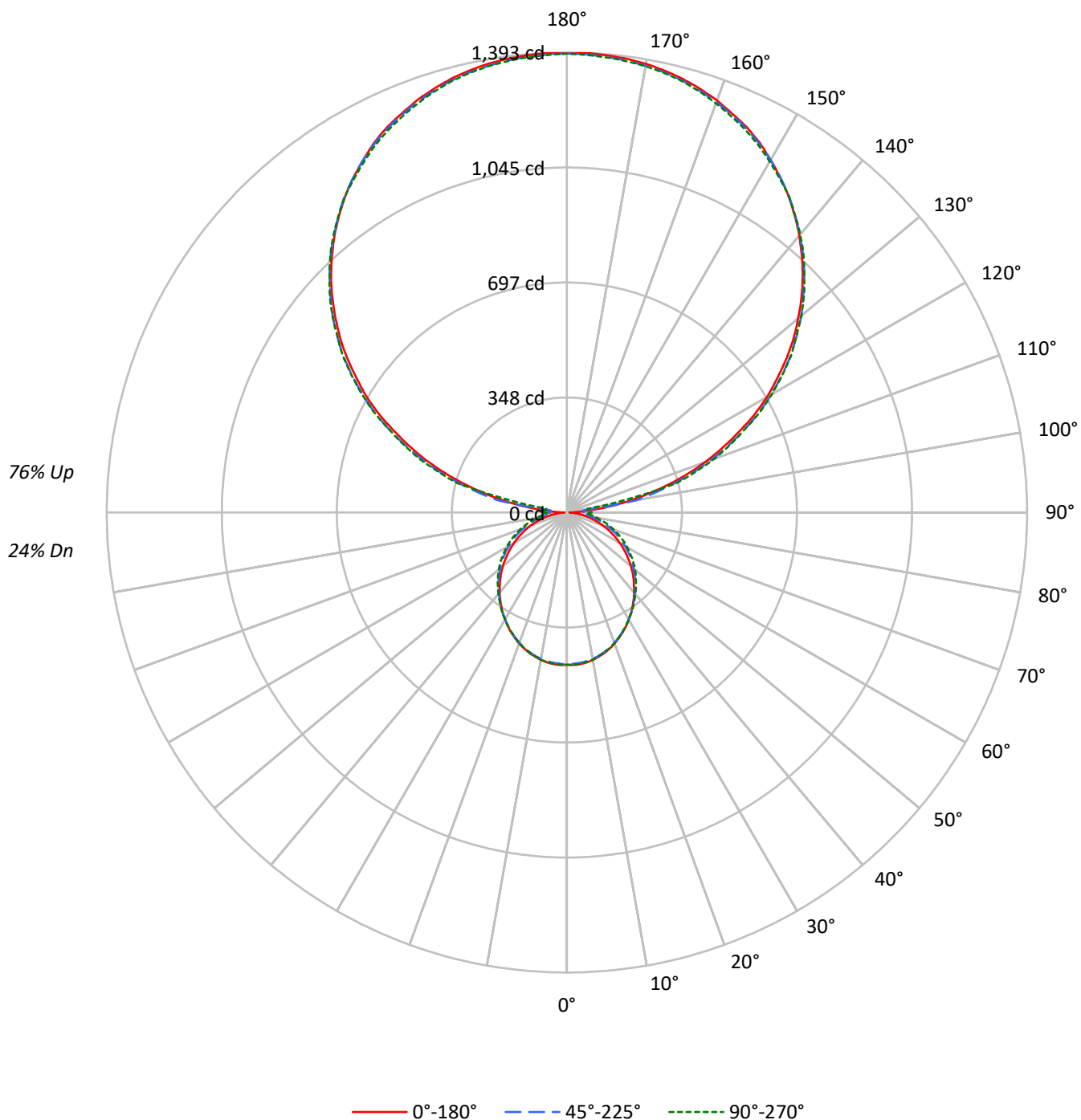
Lumens per Lamp: N/A
Luminaire Lumens: 5699.0 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 44.5
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	101	101	101	101	90	90	90	90	69	69	69	49	49	49	32	32	32
1	92	87	83	80	81	78	74	71	59	57	55	43	42	40	28	27	26
2	83	76	70	65	74	68	63	58	52	48	45	37	35	33	24	23	22
3	76	67	59	54	67	59	53	48	46	41	38	33	30	28	21	20	18
4	69	59	51	45	61	52	46	41	40	36	32	29	26	24	19	17	16
5	63	52	44	38	56	46	40	35	36	31	27	26	23	20	17	15	14
6	58	46	39	33	51	42	35	30	32	27	24	23	20	18	15	13	12
7	54	42	34	29	47	37	31	26	29	24	21	21	18	16	14	12	10
8	50	38	30	25	44	34	27	23	26	22	18	19	16	14	13	11	9
9	46	34	27	22	41	31	24	20	24	19	16	18	14	12	12	10	8
10	43	31	24	20	38	28	22	18	22	17	14	16	13	11	11	9	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2954	2954	2954
5°	2958	2892	2899
10°	2936	2833	2825
15°	2900	2764	2734
20°	2852	2681	2643
25°	2795	2593	2534
30°	2725	2497	2434
35°	2661	2408	2342
40°	2595	2315	2250
45°	2521	2234	2166
50°	2450	2146	2092
55°	2364	2062	2004
60°	2270	1966	1915
65°	2171	1866	1815
70°	2060	1731	1709
75°	1884	1598	1582
80°	1651	1436	1440
85°	1424	1307	1365

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2521 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.6	0.8
10°-20°	123.8	2.2
20°-30°	184.1	3.2
30°-40°	218.1	3.8
40°-50°	225.5	4.0
50°-60°	207.7	3.6
60°-70°	167.9	2.9
70°-80°	112.3	2.0
80°-90°	60.1	1.1
90°-100°	79.9	1.4
100°-110°	337.8	5.9
110°-120°	580.9	10.2
120°-130°	734.1	12.9
130°-140°	783.7	13.8
140°-150°	732.6	12.9
150°-160°	592.0	10.4
160°-170°	382.8	6.7
170°-180°	132.0	2.3
0°-30°	351.6	6.2
0°-40°	569.7	10.0
0°-60°	1002.8	17.6
0°-90°	1343.2	23.6
90°-120°	998.6	17.5
90°-150°	3249.0	57.0
90°-180°	4356.0	76.4
0°-180°	5699.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	461	461	461	461	461	
5°	461	460	457	460	460	44
15°	440	441	438	440	438	124
25°	400	401	399	400	398	184
35°	346	349	348	349	349	217
45°	285	290	292	296	296	220
55°	219	226	234	239	240	196
65°	151	161	172	179	181	150
75°	83	95	109	118	121	88
85°	25	40	56	66	69	26
90°	8	31	54	69	75	8
95°	65	73	50	64	68	77
105°	307	318	332	341	343	325
115°	571	580	592	596	593	566
125°	810	817	826	829	829	724
135°	1010	1015	1016	1020	1016	778
145°	1170	1171	1171	1175	1170	731
155°	1288	1282	1284	1287	1278	593
165°	1359	1353	1354	1360	1352	384
175°	1390	1384	1385	1393	1384	132
180°	1390	1390	1390	1390	1390	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	461.0	461.0	461.0	461.0	461.0
2.5°	462.3	461.4	458.3	461.4	461.0
5°	461.0	460.1	456.9	460.5	460.1
7.5°	457.8	457.4	454.2	457.4	456.9
10°	453.3	453.3	449.7	452.8	452.4
12.5°	447.0	447.4	444.7	447.0	445.6
15°	440.2	440.6	437.5	440.2	438.4
17.5°	431.6	432.5	429.3	431.6	430.2
20°	422.1	423.0	419.8	421.2	421.2
22.5°	411.3	413.1	409.4	411.3	409.9
25°	400.0	401.3	398.6	400.4	398.2
27.5°	387.8	389.6	386.4	387.8	386.9
30°	373.7	376.5	373.7	374.6	374.2
32.5°	361.1	363.4	361.5	362.4	362.0
35°	346.2	349.3	348.0	349.3	349.3
37.5°	331.7	334.4	334.0	335.8	335.3
40°	316.8	320.4	320.0	321.8	322.7
42.5°	300.5	305.5	306.9	309.1	309.1
45°	285.2	290.1	292.4	295.6	296.0
47.5°	269.4	273.9	277.5	282.0	282.9
50°	253.1	258.1	263.0	268.0	269.4
52.5°	235.9	242.2	248.6	254.0	254.9
55°	219.2	226.4	233.6	238.6	240.4
57.5°	202.0	210.6	218.7	224.2	225.5
60°	184.8	193.9	202.9	209.7	211.1
62.5°	168.1	177.2	187.1	194.8	196.6
65°	150.9	161.3	172.2	179.0	180.8
67.5°	135.1	145.1	155.9	164.1	166.3
70°	117.5	127.9	139.6	148.2	150.9
72.5°	100.3	111.2	124.3	133.8	135.6
75°	83.2	94.9	109.4	118.4	120.7
77.5°	66.4	80.0	93.5	103.5	105.3
80°	51.1	64.6	80.0	89.9	91.7
82.5°	37.1	51.5	67.3	76.8	80.4
85°	24.9	39.8	55.6	65.5	69.1
87.5°	15.8	30.3	45.6	56.0	59.2
90°	8.2	31.0	53.6	69.1	75.3
92.5°	25.9	29.7	51.8	66.8	71.1
95°	64.6	73.2	49.5	64.5	67.7
97.5°	115.6	132.7	49.7	61.3	65.4
100°	177.0	189.6	208.2	64.2	62.7
102.5°	239.4	252.1	268.2	279.3	195.5
105°	307.0	318.3	331.9	340.9	343.1
107.5°	376.5	382.8	398.0	408.1	406.7
110°	444.1	449.5	464.2	469.7	473.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	508.0	515.1	528.3	532.4	533.4
115°	571.4	579.7	592.4	596.5	593.0
117.5°	637.9	640.1	655.5	657.1	658.2
120°	699.7	700.0	713.5	719.1	716.7
122.5°	753.8	759.5	770.4	775.6	772.1
125°	810.5	817.3	826.3	829.4	828.6
127.5°	864.7	869.3	876.0	880.8	875.2
130°	914.1	918.8	926.1	929.4	926.5
132.5°	963.1	969.3	970.7	977.1	973.7
135°	1009.5	1015.2	1016.3	1020.1	1016.2
137.5°	1052.7	1058.5	1058.2	1063.6	1060.3
140°	1094.6	1096.6	1096.0	1103.1	1098.7
142.5°	1132.7	1133.2	1135.3	1139.4	1135.0
145°	1169.8	1171.3	1171.3	1174.7	1170.3
147.5°	1202.2	1202.2	1203.3	1205.2	1198.9
150°	1233.1	1231.1	1233.1	1235.2	1227.5
152.5°	1263.0	1257.9	1259.9	1262.0	1254.8
155°	1287.7	1281.6	1283.6	1286.7	1278.5
157.5°	1307.3	1304.2	1304.2	1307.3	1299.1
160°	1327.9	1321.7	1322.8	1326.9	1318.6
162.5°	1344.4	1338.2	1339.2	1345.4	1336.2
165°	1358.8	1352.6	1353.7	1359.8	1351.6
167.5°	1370.2	1364.0	1365.0	1372.2	1362.9
170°	1379.4	1372.2	1373.2	1381.5	1372.2
172.5°	1385.6	1378.4	1380.5	1387.7	1378.4
175°	1389.7	1383.5	1384.6	1392.8	1383.5
177.5°	1392.8	1386.6	1387.7	1394.9	1386.6
180°	1389.7	1389.7	1389.7	1389.7	1389.7

(END OF REPORT)