

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: P1031171

Luminaire Tested: S123RDIW-B560D1030UB2750-4F0-XX-W2A-F_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1031171
REPORT IS A COMBINATION OF REPORTS P994395 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIW-B560D1030UB2750-4F0-XX-W2A-F_3000K
Description: Define 3 Regressed Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

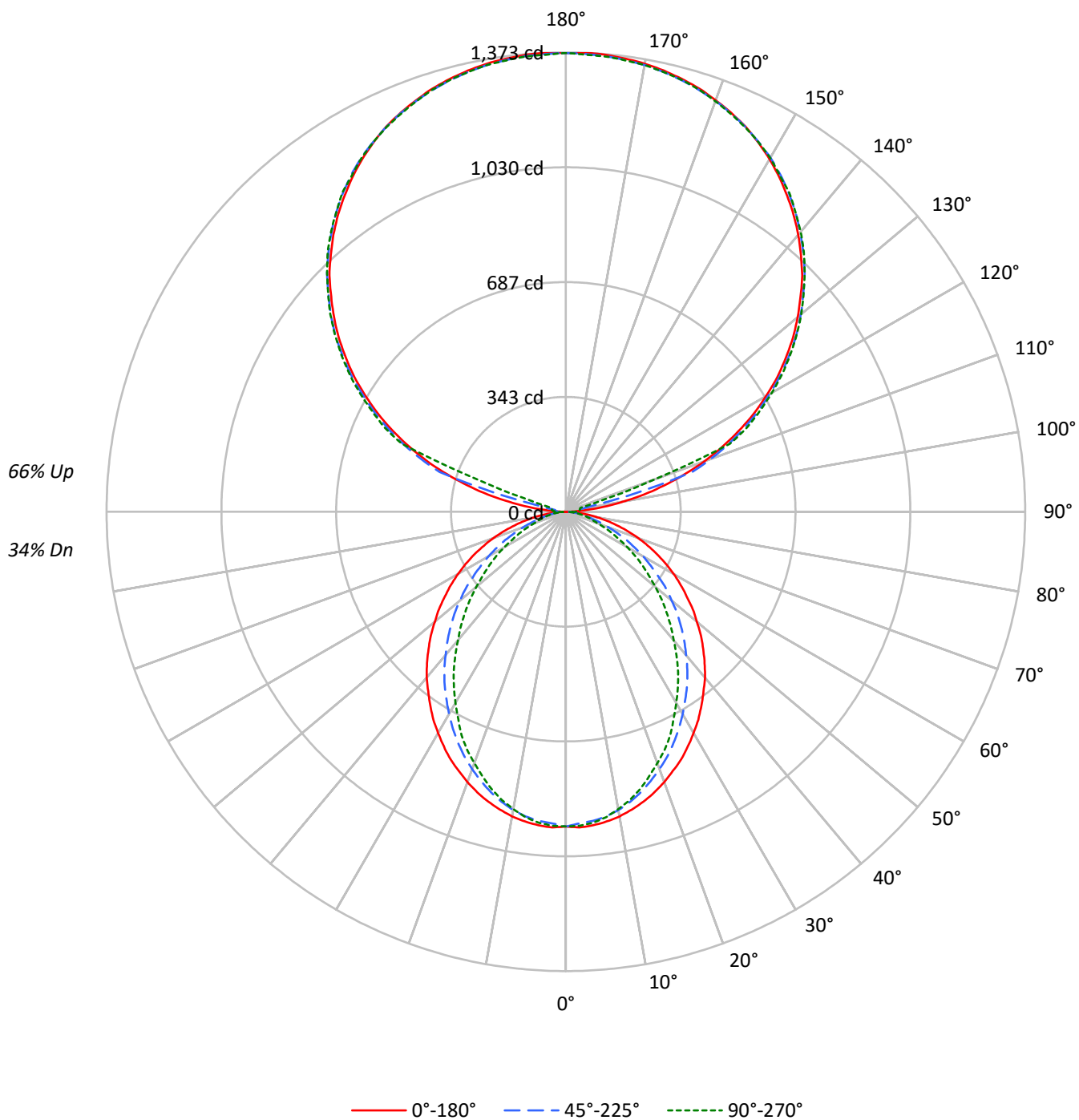
Lumens per Lamp: N/A
Luminaire Lumens: 6308.0 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 55.5
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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41
1	94	90	87	83	85	82	78	76	65	63	61	50	49	48	37	36	35
2	86	79	73	68	77	72	67	62	57	54	51	45	42	40	33	31	30
3	79	70	63	57	71	63	57	52	51	47	43	40	37	34	29	27	26
4	72	62	54	48	65	56	49	44	45	41	37	35	32	29	26	24	22
5	66	55	47	41	59	50	43	38	40	36	32	32	28	26	24	21	20
6	61	49	41	36	55	45	38	33	36	31	28	29	25	22	21	19	17
7	56	44	37	31	51	40	34	29	33	28	24	26	23	20	20	17	15
8	52	40	33	28	47	37	30	26	30	25	22	24	20	18	18	16	14
9	48	37	29	25	44	34	27	23	28	23	19	22	18	16	17	14	12
10	45	34	27	22	41	31	25	20	25	21	17	20	17	14	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10125	10125	10125
5°	10141	9766	9740
10°	10061	9399	9214
15°	9930	8946	8638
20°	9759	8451	7994
25°	9583	7939	7384
30°	9356	7393	6663
35°	9123	6857	6006
40°	8903	6275	5281
45°	8621	5706	4629
50°	8311	5098	3953
55°	7989	4447	3335
60°	7682	3780	2706
65°	7284	3096	2113
70°	6785	2341	1510
75°	6063	1586	1196
80°	5179	1103	838
85°	3881	596	439

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8621 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.4	1.4
10°-20°	246.0	3.9
20°-30°	354.2	5.6
30°-40°	398.8	6.3
40°-50°	381.5	6.0
50°-60°	312.3	5.0
60°-70°	210.6	3.3
70°-80°	105.6	1.7
80°-90°	30.3	0.5
90°-100°	48.4	0.8
100°-110°	233.8	3.7
110°-120°	572.9	9.1
120°-130°	727.3	11.5
130°-140°	776.9	12.3
140°-150°	726.5	11.5
150°-160°	586.0	9.3
160°-170°	378.2	6.0
170°-180°	130.3	2.1
0°-30°	688.6	10.9
0°-40°	1087.4	17.2
0°-60°	1781.2	28.2
0°-90°	2127.7	33.7
90°-120°	855.0	13.6
90°-150°	3085.8	48.9
90°-180°	4180.0	66.3
0°-180°	6308.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	941	941	941	941	941	
5°	941	937	928	934	933	89
15°	897	889	867	864	858	253
25°	816	797	762	746	738	375
35°	706	679	632	599	585	442
45°	580	546	488	444	426	448
55°	441	404	339	294	279	395
65°	301	259	200	162	154	298
75°	159	123	81	73	72	170
85°	40	24	21	20	20	44
90°	1	11	24	28	31	6
95°	62	20	32	39	39	74
105°	304	315	223	43	45	322
115°	570	576	585	595	599	562
125°	803	811	815	817	819	717
135°	999	1006	1010	1013	1010	769
145°	1153	1160	1162	1164	1164	722
155°	1270	1268	1269	1274	1268	585
165°	1340	1337	1336	1344	1337	379
175°	1371	1366	1367	1374	1366	130
180°	1371	1371	1371	1371	1371	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	940.6	940.6	940.6	940.6	940.6
2.5°	944.4	941.4	932.2	940.6	939.1
5°	940.6	936.8	927.6	934.5	933.0
7.5°	933.7	929.9	918.5	923.1	920.8
10°	924.6	919.2	905.5	906.3	902.5
12.5°	911.6	905.5	888.0	887.2	882.6
15°	897.1	888.7	867.4	863.6	858.2
17.5°	879.6	870.4	843.7	836.1	828.5
20°	859.7	847.5	818.5	808.6	799.5
22.5°	837.6	823.1	791.8	778.9	770.5
25°	816.3	797.2	762.1	746.1	737.7
27.5°	790.3	769.7	731.6	710.2	697.3
30°	763.6	740.7	698.0	672.1	659.9
32.5°	736.9	710.2	664.5	635.5	622.5
35°	706.4	678.9	631.6	598.8	585.1
37.5°	675.9	646.1	596.6	559.9	543.2
40°	646.9	613.3	559.2	519.5	502.0
42.5°	614.1	580.5	524.1	479.8	464.6
45°	580.5	546.2	487.5	444.0	425.7
47.5°	547.7	509.6	451.6	404.3	388.3
50°	511.1	475.3	413.5	366.2	348.6
52.5°	478.3	438.6	377.6	328.0	312.8
55°	440.9	403.6	338.7	294.5	279.2
57.5°	407.4	366.9	301.3	259.4	246.4
60°	372.3	330.3	267.0	225.8	212.8
62.5°	337.2	295.2	231.9	193.8	180.0
65°	301.3	259.4	199.9	162.5	154.1
67.5°	265.5	222.8	164.8	136.6	127.4
70°	230.4	189.2	135.8	109.1	100.7
72.5°	195.3	154.9	107.6	87.0	84.7
75°	159.4	122.8	80.9	73.2	71.7
77.5°	126.6	93.1	63.3	58.7	57.2
80°	95.4	64.1	48.1	45.8	44.2
82.5°	65.6	39.7	34.3	32.0	32.0
85°	40.4	23.6	21.4	19.8	19.8
87.5°	18.3	9.9	9.9	9.2	8.4
90°	1.0	11.2	24.4	28.5	30.6
92.5°	23.4	17.3	26.5	33.6	34.6
95°	62.1	20.4	31.6	38.7	38.7
97.5°	113.1	84.6	32.6	40.7	41.8
100°	172.2	192.5	33.6	41.8	42.8
102.5°	239.4	252.6	75.4	41.8	43.8
105°	303.6	314.8	223.1	42.8	44.8
107.5°	371.8	381.0	396.3	239.4	105.9
110°	440.1	448.2	459.4	425.8	280.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	505.3	512.4	523.6	532.8	530.8
115°	569.5	575.6	584.8	594.9	599.0
117.5°	632.6	639.8	644.9	653.0	654.0
120°	690.7	699.9	702.9	711.1	711.1
122.5°	749.8	756.9	761.0	766.1	767.1
125°	802.8	810.9	815.0	817.0	819.1
127.5°	855.7	863.9	869.0	872.0	870.0
130°	904.6	912.8	916.9	920.9	918.9
132.5°	951.5	959.6	962.7	966.8	963.7
135°	999.4	1005.5	1009.6	1012.6	1009.6
137.5°	1040.1	1048.3	1050.3	1055.4	1053.4
140°	1080.9	1087.0	1090.0	1094.1	1092.1
142.5°	1118.6	1124.7	1127.7	1130.8	1127.7
145°	1153.2	1160.3	1162.4	1164.4	1164.4
147.5°	1186.8	1191.9	1194.0	1196.0	1190.9
150°	1217.4	1220.4	1222.5	1224.5	1221.5
152.5°	1244.9	1245.9	1246.9	1251.0	1245.9
155°	1270.4	1268.3	1269.3	1274.4	1268.3
157.5°	1290.7	1290.7	1289.7	1295.8	1287.7
160°	1309.1	1308.1	1307.0	1313.1	1306.0
162.5°	1326.4	1323.3	1322.3	1329.4	1323.3
165°	1339.6	1336.6	1335.6	1343.7	1336.6
167.5°	1350.8	1346.8	1346.8	1354.9	1346.8
170°	1360.0	1355.9	1355.9	1364.1	1355.9
172.5°	1366.1	1361.0	1362.0	1370.2	1361.0
175°	1371.2	1366.1	1367.1	1374.3	1366.1
177.5°	1373.3	1368.2	1369.2	1377.3	1367.1
180°	1371.2	1371.2	1371.2	1371.2	1371.2

(END OF REPORT)