

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: P1032434

Luminaire Tested: S123RDIW-B775D460UB35-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1032434
REPORT IS A COMBINATION OF REPORTS P994760 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIW-B775D460UB35-4F0-XX-W2A-F
Description: Define 3 Regressed Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

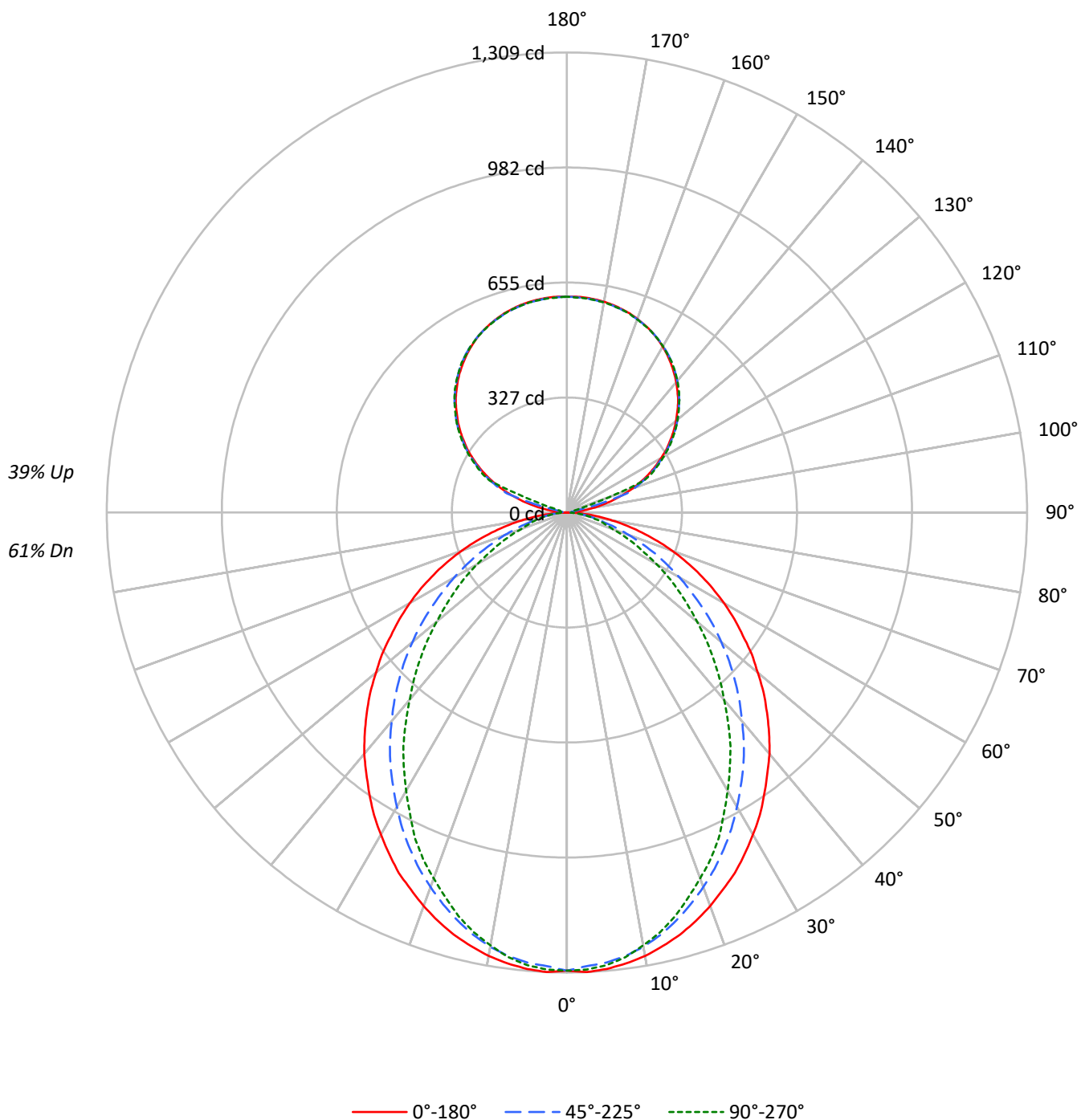
Lumens per Lamp: N/A
Luminaire Lumens: 4818.0 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 49.1
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	110	110	110	110	103	103	103	103	90	90	90	77	77	77	66	66	66
1	101	96	93	89	94	90	87	84	79	77	74	69	67	65	59	58	57
2	92	85	79	74	86	80	74	70	70	66	62	61	58	55	53	50	49
3	84	75	68	62	79	70	64	59	62	57	53	54	50	47	47	44	42
4	77	67	59	53	72	63	56	50	55	50	45	49	44	41	42	39	36
5	71	59	51	45	66	56	49	43	50	44	39	44	39	36	38	35	32
6	66	54	45	40	61	51	43	38	45	39	35	40	35	31	35	31	28
7	61	49	41	35	57	46	39	34	41	35	31	36	32	28	32	28	25
8	57	44	36	31	53	42	35	30	37	32	27	33	29	25	29	26	23
9	53	41	33	28	49	38	32	27	34	29	25	31	26	23	27	23	21
10	49	37	30	25	46	35	29	24	32	26	22	28	24	21	25	22	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14032	14032	14032
5°	14055	13535	13499
10°	13944	13026	12769
15°	13763	12397	11971
20°	13525	11713	11079
25°	13280	11002	10233
30°	12967	10246	9234
35°	12643	9503	8324
40°	12338	8697	7319
45°	11949	7908	6414
50°	11518	7065	5479
55°	11073	6164	4621
60°	10645	5239	3752
65°	10095	4290	2928
70°	9403	3244	2093
75°	8407	2197	1658
80°	7177	1527	1163
85°	5379	824	610

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11949 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.5	2.5
10°-20°	340.9	7.1
20°-30°	490.8	10.2
30°-40°	552.8	11.5
40°-50°	528.7	11.0
50°-60°	432.8	9.0
60°-70°	291.8	6.1
70°-80°	146.4	3.0
80°-90°	39.5	0.8
90°-100°	21.7	0.4
100°-110°	104.7	2.2
110°-120°	256.5	5.3
120°-130°	325.6	6.8
130°-140°	347.9	7.2
140°-150°	325.3	6.8
150°-160°	262.4	5.4
160°-170°	169.3	3.5
170°-180°	58.4	1.2
0°-30°	954.3	19.8
0°-40°	1507.0	31.3
0°-60°	2468.6	51.2
0°-90°	2946.3	61.2
90°-120°	382.9	7.9
90°-150°	1381.7	28.7
90°-180°	1872.0	38.9
0°-180°	4818.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1304	1304	1304	1304	1304	
5°	1304	1298	1286	1295	1293	124
15°	1243	1232	1202	1197	1189	350
25°	1131	1105	1056	1034	1022	520
35°	979	941	875	830	811	613
45°	805	757	676	615	590	621
55°	611	559	469	408	387	548
65°	418	360	277	225	214	413
75°	221	170	112	102	99	235
85°	56	33	30	28	28	61
90°	0	5	11	13	14	5
95°	28	9	14	17	17	33
105°	136	141	100	19	20	144
115°	255	258	262	266	268	252
125°	359	363	365	366	367	321
135°	448	450	452	453	452	345
145°	516	520	520	521	521	323
155°	569	568	568	571	568	262
165°	600	598	598	602	598	169
175°	614	612	612	615	612	58
180°	614	614	614	614	614	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1303.6	1303.6	1303.6	1303.6	1303.6
2.5°	1308.9	1304.6	1291.9	1303.6	1301.5
5°	1303.6	1298.3	1285.6	1295.1	1293.0
7.5°	1294.1	1288.8	1272.9	1279.3	1276.1
10°	1281.4	1274.0	1254.9	1256.0	1250.7
12.5°	1263.4	1254.9	1230.6	1229.6	1223.2
15°	1243.3	1231.7	1202.1	1196.8	1189.4
17.5°	1219.0	1206.3	1169.3	1158.7	1148.2
20°	1191.5	1174.6	1134.4	1120.7	1108.0
22.5°	1160.8	1140.8	1097.4	1079.4	1067.8
25°	1131.2	1104.8	1056.2	1034.0	1022.3
27.5°	1095.3	1066.8	1013.9	984.3	966.3
30°	1058.3	1026.6	967.4	931.4	914.5
32.5°	1021.3	984.3	920.9	880.7	862.7
35°	979.0	940.9	875.4	829.9	810.9
37.5°	936.7	895.5	826.8	776.0	752.8
40°	896.5	850.0	775.0	720.0	695.7
42.5°	851.1	804.6	726.3	665.0	643.9
45°	804.6	757.0	675.6	615.3	589.9
47.5°	759.1	706.2	625.9	560.3	538.1
50°	708.3	658.7	573.0	507.5	483.2
52.5°	662.9	607.9	523.3	454.6	433.5
55°	611.1	559.3	469.4	408.1	386.9
57.5°	564.6	508.5	417.6	359.5	341.5
60°	515.9	457.8	370.0	312.9	295.0
62.5°	467.3	409.2	321.4	268.5	249.5
65°	417.6	359.5	277.0	225.2	213.6
67.5°	367.9	308.7	228.4	189.2	176.6
70°	319.3	262.2	188.2	151.2	139.6
72.5°	270.7	214.6	149.1	120.5	117.4
75°	221.0	170.2	112.1	101.5	99.4
77.5°	175.5	129.0	87.8	81.4	79.3
80°	132.2	88.8	66.6	63.4	61.3
82.5°	90.9	55.0	47.6	44.4	44.4
85°	56.0	32.8	29.6	27.5	27.5
87.5°	25.4	13.7	13.7	12.7	11.6
90°	0.5	5.0	10.9	12.8	13.7
92.5°	10.5	7.8	11.9	15.1	15.5
95°	27.8	9.1	14.1	17.3	17.3
97.5°	50.6	37.9	14.6	18.2	18.7
100°	77.1	86.2	15.1	18.7	19.2
102.5°	107.2	113.1	33.8	18.7	19.6
105°	135.9	141.0	99.9	19.2	20.1
107.5°	166.5	170.6	177.4	107.2	47.4
110°	197.1	200.7	205.7	190.7	125.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	226.3	229.4	234.5	238.6	237.7
115°	255.0	257.7	261.8	266.4	268.2
117.5°	283.3	286.5	288.7	292.4	292.8
120°	309.3	313.4	314.7	318.4	318.4
122.5°	335.7	338.9	340.7	343.0	343.5
125°	359.4	363.1	364.9	365.8	366.7
127.5°	383.2	386.8	389.1	390.5	389.6
130°	405.1	408.7	410.5	412.4	411.4
132.5°	426.0	429.7	431.1	432.9	431.5
135°	447.5	450.2	452.0	453.4	452.0
137.5°	465.7	469.4	470.3	472.6	471.7
140°	484.0	486.7	488.1	489.9	489.0
142.5°	500.9	503.6	505.0	506.3	505.0
145°	516.4	519.6	520.5	521.4	521.4
147.5°	531.4	533.7	534.6	535.5	533.2
150°	545.1	546.5	547.4	548.3	546.9
152.5°	557.4	557.9	558.3	560.2	557.9
155°	568.8	567.9	568.4	570.6	567.9
157.5°	577.9	577.9	577.5	580.2	576.6
160°	586.2	585.7	585.2	588.0	584.8
162.5°	593.9	592.5	592.1	595.3	592.5
165°	599.8	598.5	598.0	601.7	598.5
167.5°	604.9	603.0	603.0	606.7	603.0
170°	609.0	607.1	607.1	610.8	607.1
172.5°	611.7	609.4	609.9	613.5	609.4
175°	614.0	611.7	612.2	615.3	611.7
177.5°	614.9	612.6	613.1	616.7	612.2
180°	614.0	614.0	614.0	614.0	614.0

(END OF REPORT)