

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: P1011006

Luminaire Tested: S123RDIP-B775D585UB2750-4F0-XX-W2A-F_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011006
REPORT IS A COMBINATION OF REPORTS P993652 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B775D585UB2750-4F0-XX-W2A-F_3500K
Description: Define 3 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

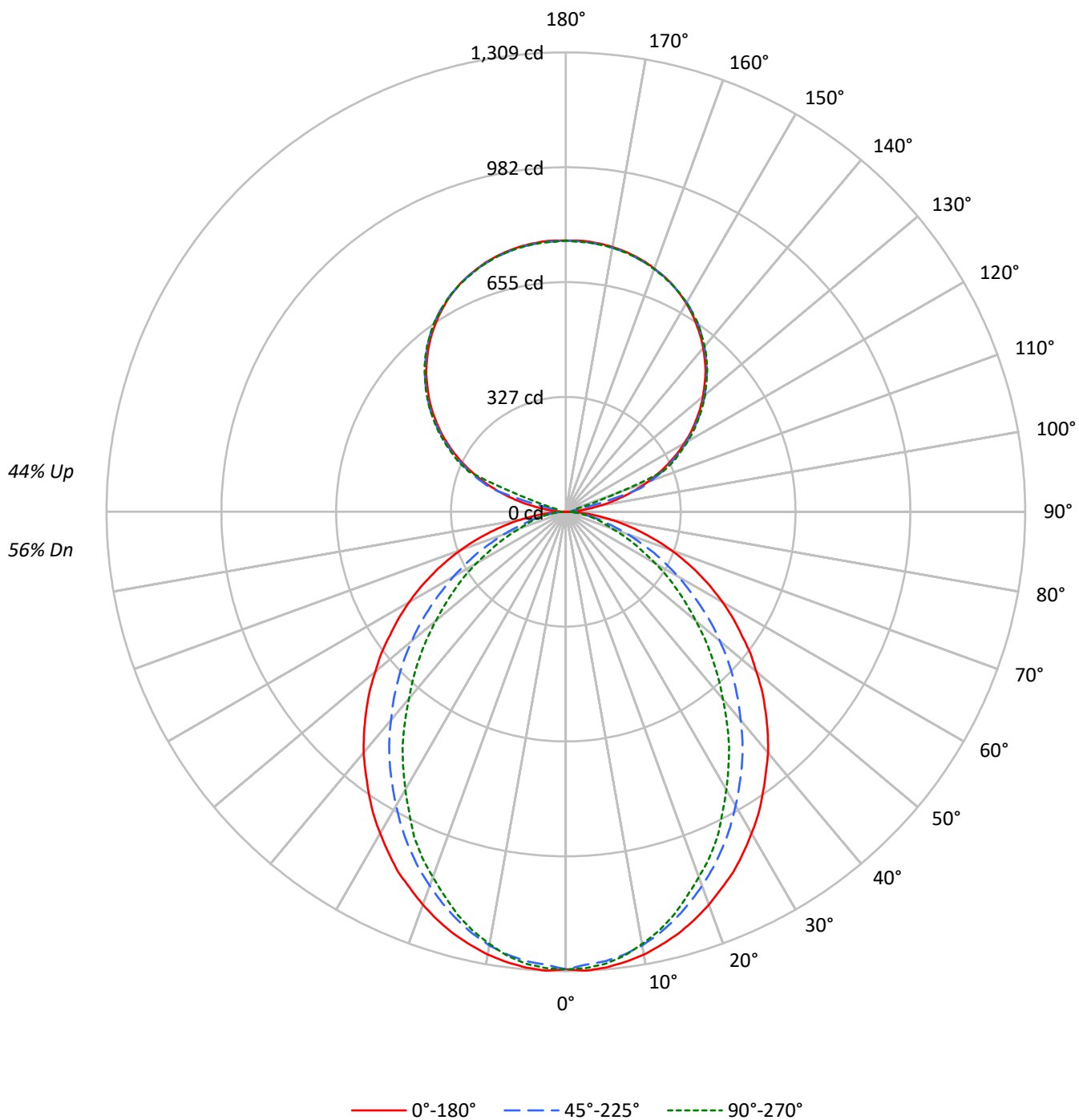
Lumens per Lamp: N/A
Luminaire Lumens: 5302.0 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 51.3
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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61
1	99	95	91	88	92	89	85	82	76	74	72	65	63	62	55	54	52
2	91	84	78	72	84	78	73	68	67	63	60	58	55	52	49	47	45
3	83	74	67	61	77	69	63	57	60	55	51	51	48	45	43	41	38
4	76	66	58	52	71	61	54	49	53	48	44	46	42	38	39	36	33
5	70	59	51	45	65	55	48	42	48	42	38	41	37	34	35	32	29
6	65	53	45	39	60	49	42	37	43	38	33	37	33	30	32	29	26
7	60	48	40	34	56	45	38	33	39	34	29	34	30	26	29	26	23
8	56	43	36	30	52	41	34	29	36	30	26	31	27	24	27	24	21
9	52	40	32	27	48	37	31	26	33	28	24	29	24	21	25	22	19
10	49	37	29	25	45	34	28	23	31	25	21	27	22	19	23	20	17

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	2.3
10°-20°	340.9	6.4
20°-30°	490.8	9.3
30°-40°	552.8	10.4
40°-50°	528.7	10.0
50°-60°	432.8	8.2
60°-70°	291.8	5.5
70°-80°	146.4	2.8
80°-90°	39.8	0.8
90°-100°	27.2	0.5
100°-110°	131.7	2.5
110°-120°	322.8	6.1
120°-130°	409.8	7.7
130°-140°	437.8	8.3
140°-150°	409.4	7.7
150°-160°	330.2	6.2
160°-170°	213.1	4.0
170°-180°	73.4	1.4
0°-30°	954.3	18.0
0°-40°	1507.0	28.4
0°-60°	2468.6	46.6
0°-90°	2946.6	55.6
90°-120°	481.8	9.1
90°-150°	1738.7	32.8
90°-180°	2355.0	44.4
0°-180°	5302.0	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°	1	6	14	16	17	5
95°	35	12	18	22	22	42
105°	171	177	126	24	25	181
115°	321	324	330	335	338	317
125°	452	457	459	460	462	404
135°	563	567	569	571	569	434
145°	650	654	655	656	656	407
155°	716	715	715	718	715	330
165°	755	753	752	757	753	213
175°	773	770	770	774	770	74
180°	773	773	773	773	773	

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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°	0.6	6.3	13.8	16.1	17.2
92.5°	13.2	9.8	14.9	18.9	19.5
95°	35.0	11.5	17.8	21.8	21.8
97.5°	63.7	47.6	18.4	23.0	23.5
100°	97.0	108.5	18.9	23.5	24.1
102.5°	134.9	142.4	42.5	23.5	24.7
105°	171.1	177.4	125.7	24.1	25.3
107.5°	209.5	214.7	223.3	134.9	59.7
110°	248.0	252.6	258.9	239.9	157.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	284.7	288.7	295.0	300.2	299.1
115°	320.9	324.3	329.5	335.2	337.5
117.5°	356.5	360.5	363.4	368.0	368.5
120°	389.2	394.4	396.1	400.7	400.7
122.5°	422.5	426.5	428.8	431.7	432.2
125°	452.3	456.9	459.2	460.4	461.5
127.5°	482.2	486.8	489.6	491.4	490.2
130°	509.7	514.3	516.6	518.9	517.8
132.5°	536.1	540.7	542.5	544.8	543.0
135°	563.1	566.6	568.9	570.6	568.9
137.5°	586.1	590.7	591.8	594.7	593.5
140°	609.0	612.5	614.2	616.5	615.4
142.5°	630.3	633.7	635.4	637.2	635.4
145°	649.8	653.8	655.0	656.1	656.1
147.5°	668.7	671.6	672.8	673.9	671.0
150°	686.0	687.7	688.8	690.0	688.3
152.5°	701.5	702.0	702.6	704.9	702.0
155°	715.8	714.7	715.2	718.1	714.7
157.5°	727.3	727.3	726.7	730.2	725.6
160°	737.6	737.0	736.5	739.9	735.9
162.5°	747.4	745.7	745.1	749.1	745.7
165°	754.8	753.1	752.5	757.1	753.1
167.5°	761.2	758.9	758.9	763.5	758.9
170°	766.3	764.0	764.0	768.6	764.0
172.5°	769.8	766.9	767.5	772.1	766.9
175°	772.6	769.8	770.3	774.4	769.8
177.5°	773.8	770.9	771.5	776.1	770.3
180°	772.6	772.6	772.6	772.6	772.6

(END OF REPORT)