

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: P1011984

Luminaire Tested: S123DIP-B775D1195UB50-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011984
REPORT IS A COMBINATION OF REPORTS P990338 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B775D1195UB50-4F0-XX-W2A-F4
Description: Define 3 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

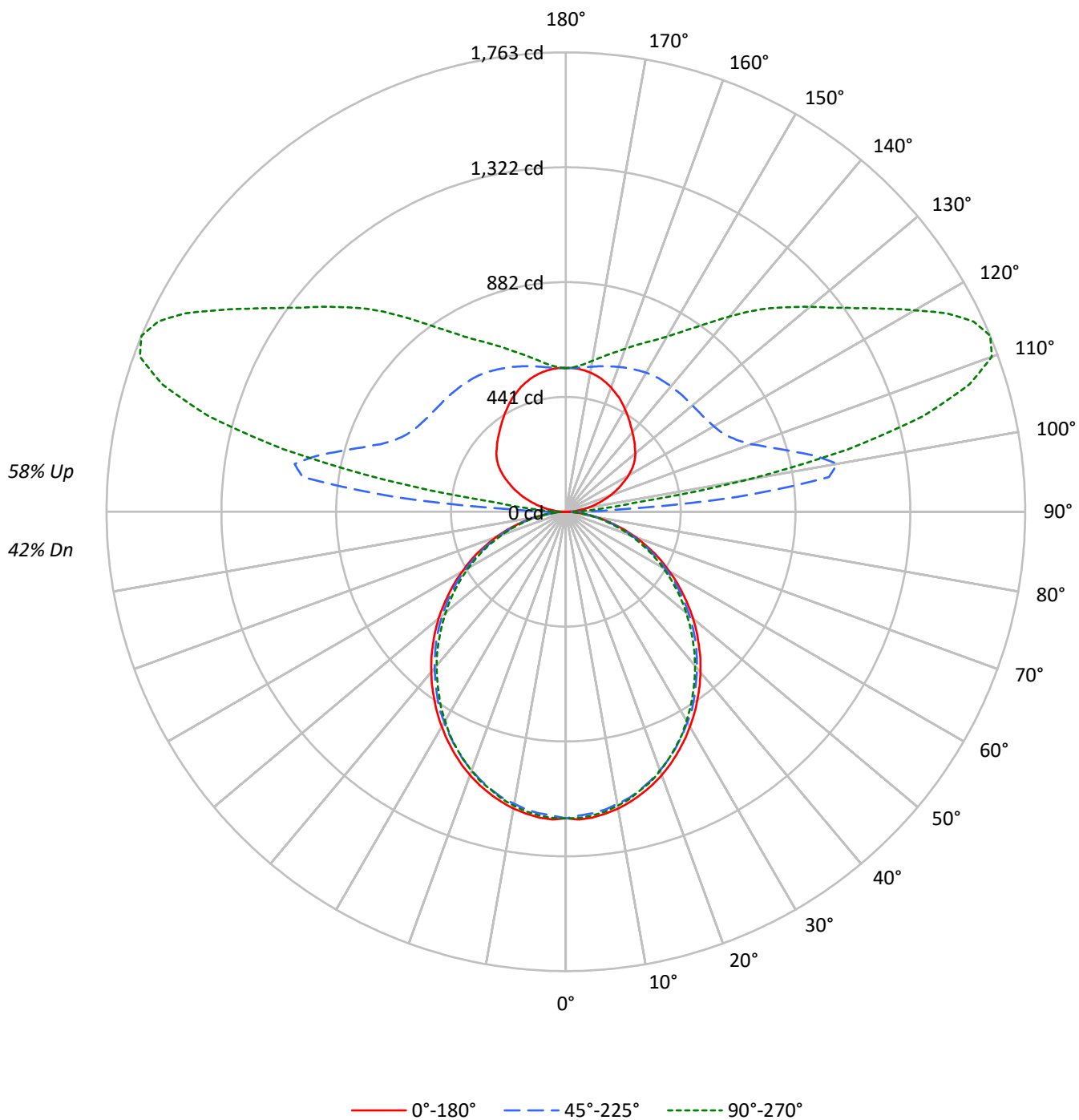
Lumens per Lamp: N/A
Luminaire Lumens: 7224.7 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 70.9
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	105	105	105	105	96	96	96	96	79	79	79	64	64	64	49	49	49
1	96	92	88	84	88	84	81	78	69	67	65	56	54	53	43	42	41
2	87	80	74	69	80	73	68	64	61	57	54	49	46	44	38	36	35
3	80	70	63	57	72	64	58	53	53	49	45	43	40	37	34	32	30
4	73	62	54	48	66	57	50	45	47	42	38	38	35	32	30	28	25
5	67	55	47	41	61	51	44	39	42	37	33	34	31	27	27	24	22
6	62	50	42	36	56	46	39	33	38	33	29	31	27	24	25	22	20
7	57	45	37	31	52	41	34	29	35	29	25	28	24	21	22	20	17
8	53	41	33	28	48	37	31	26	31	26	22	26	22	19	21	18	15
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12668	12668	12668
5°	12699	12231	12212
10°	12587	11818	11695
15°	12412	11387	11133
20°	12211	10909	10574
25°	11951	10404	9978
30°	11668	9882	9350
35°	11370	9349	8726
40°	11058	8790	8112
45°	10715	8244	7471
50°	10367	7636	6828
55°	9920	7003	6176
60°	9459	6305	5482
65°	9026	5548	4759
70°	8405	4710	3915
75°	7505	3730	3040
80°	6482	2622	2149
85°	5052	1409	1077

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10715 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.0	1.5
10°-20°	313.3	4.3
20°-30°	462.7	6.4
30°-40°	540.4	7.5
40°-50°	543.3	7.5
50°-60°	477.2	6.6
60°-70°	355.4	4.9
70°-80°	202.3	2.8
80°-90°	60.6	0.8
90°-100°	313.4	4.3
100°-110°	876.1	12.1
110°-120°	854.3	11.8
120°-130°	680.2	9.4
130°-140°	536.9	7.4
140°-150°	400.6	5.5
150°-160°	279.5	3.9
160°-170°	164.2	2.3
170°-180°	53.4	0.7
0°-30°	886.9	12.3
0°-40°	1427.3	19.8
0°-60°	2447.8	33.9
0°-90°	3066.1	42.4
90°-120°	2043.8	28.3
90°-150°	3661.5	50.7
90°-180°	4159.0	57.6
0°-180°	7224.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1177	1177	1177	1177	1177	
5°	1178	1173	1162	1172	1170	112
15°	1121	1117	1104	1112	1106	316
25°	1018	1012	999	1000	997	469
35°	880	874	861	855	850	551
45°	722	718	704	692	687	557
55°	548	546	533	522	517	490
65°	373	368	358	350	347	368
75°	197	193	190	185	182	211
85°	53	51	51	49	49	56
90°	2	13	28	31	32	6
95°	38	123	662	193	130	40
105°	130	192	898	1570	1420	138
115°	229	285	687	1506	1727	227
125°	318	376	641	1161	1362	283
135°	373	445	632	956	1104	288
145°	425	487	624	784	863	267
155°	484	521	604	687	716	222
165°	528	543	578	614	624	149
175°	550	551	555	563	562	52
180°	552	552	552	552	552	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1176.9	1176.9	1176.9	1176.9	1176.9
2.5°	1182.0	1177.9	1166.8	1176.9	1175.9
5°	1177.9	1172.9	1161.7	1171.9	1169.8
7.5°	1168.8	1163.8	1152.6	1161.7	1160.7
10°	1156.7	1151.6	1138.5	1147.6	1145.5
12.5°	1140.5	1136.4	1124.3	1130.4	1129.4
15°	1121.3	1117.2	1104.1	1112.2	1106.1
17.5°	1100.0	1095.0	1081.8	1087.9	1085.8
20°	1075.7	1069.7	1056.5	1060.5	1057.5
22.5°	1048.4	1042.3	1029.2	1032.2	1028.2
25°	1018.0	1012.0	998.8	999.8	996.8
27.5°	986.7	980.6	966.4	967.4	964.4
30°	952.3	947.2	933.0	933.0	926.0
32.5°	917.9	910.8	900.7	893.6	890.5
35°	880.4	874.3	861.2	855.1	850.1
37.5°	843.0	834.9	821.7	814.6	811.6
40°	803.5	797.4	783.3	775.2	771.1
42.5°	764.0	757.0	742.8	734.7	730.6
45°	721.5	717.5	704.3	692.2	687.1
47.5°	680.0	674.0	661.8	649.7	645.6
50°	637.5	632.5	619.3	608.2	602.1
52.5°	593.0	590.0	575.8	566.7	560.6
55°	547.5	546.5	533.3	522.2	517.1
57.5°	505.0	500.9	490.8	480.7	474.6
60°	458.4	457.4	445.3	436.2	431.1
62.5°	416.9	413.9	401.8	392.6	389.6
65°	373.4	368.4	358.2	350.1	347.1
67.5°	326.9	322.8	314.7	307.6	303.6
70°	285.4	279.3	273.2	266.1	261.1
72.5°	241.9	237.8	230.7	224.7	222.6
75°	197.3	193.3	190.3	185.2	182.2
77.5°	157.9	155.8	151.8	147.7	147.7
80°	119.4	116.4	114.4	113.3	113.3
82.5°	82.0	82.0	82.0	79.9	78.9
85°	52.6	50.6	50.6	48.6	48.6
87.5°	26.3	23.3	22.3	21.3	21.3
90°	2.2	13.4	27.9	31.2	32.4
92.5°	16.7	67.0	207.7	70.9	59.2
95°	38.0	123.4	662.1	193.2	129.5
97.5°	60.3	141.2	1018.3	485.6	265.7
100°	82.6	155.8	1057.4	1016.0	700.1
102.5°	106.1	172.5	984.8	1360.5	1108.7
105°	129.5	191.5	897.7	1569.8	1420.2
107.5°	154.1	213.8	820.7	1662.0	1623.4
110°	180.9	236.7	757.0	1664.8	1739.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	205.4	260.7	714.6	1601.6	1763.0
115°	228.9	285.2	686.7	1505.6	1727.3
117.5°	252.3	308.8	667.7	1402.9	1649.1
120°	276.9	332.2	655.4	1305.8	1546.4
122.5°	298.1	354.5	647.6	1229.3	1450.4
125°	318.2	375.7	640.9	1161.2	1362.2
127.5°	333.8	395.8	637.5	1105.4	1286.2
130°	348.4	413.6	634.2	1054.0	1223.7
132.5°	359.5	429.9	633.1	1006.0	1162.3
135°	372.9	445.0	632.0	956.3	1104.3
137.5°	385.2	457.2	629.7	909.4	1042.8
140°	397.5	468.4	628.6	863.6	978.1
142.5°	410.9	478.4	626.4	821.8	917.8
145°	425.4	487.4	624.1	784.4	863.1
147.5°	439.9	496.8	620.8	755.4	816.2
150°	454.4	504.6	616.3	729.6	776.0
152.5°	468.9	513.0	610.7	707.3	742.5
155°	483.5	521.4	604.0	686.7	715.7
157.5°	494.6	528.6	598.5	666.6	690.0
160°	508.0	534.8	591.8	648.2	665.5
162.5°	518.1	539.3	585.1	630.8	643.1
165°	528.1	543.2	578.4	613.5	624.1
167.5°	535.9	546.6	571.7	598.4	605.2
170°	542.6	548.2	565.0	585.0	588.4
172.5°	547.1	549.9	559.4	573.3	572.8
175°	550.5	551.0	554.9	562.7	561.6
177.5°	552.7	551.6	551.6	556.0	553.8
180°	551.6	551.6	551.6	551.6	551.6

(END OF REPORT)