

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: P1011954

Luminaire Tested: S123DIP-B775D1195UB30-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011954
REPORT IS A COMBINATION OF REPORTS P990308 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B775D1195UB30-4F0-XX-W2A-D4
Description: Define 3 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

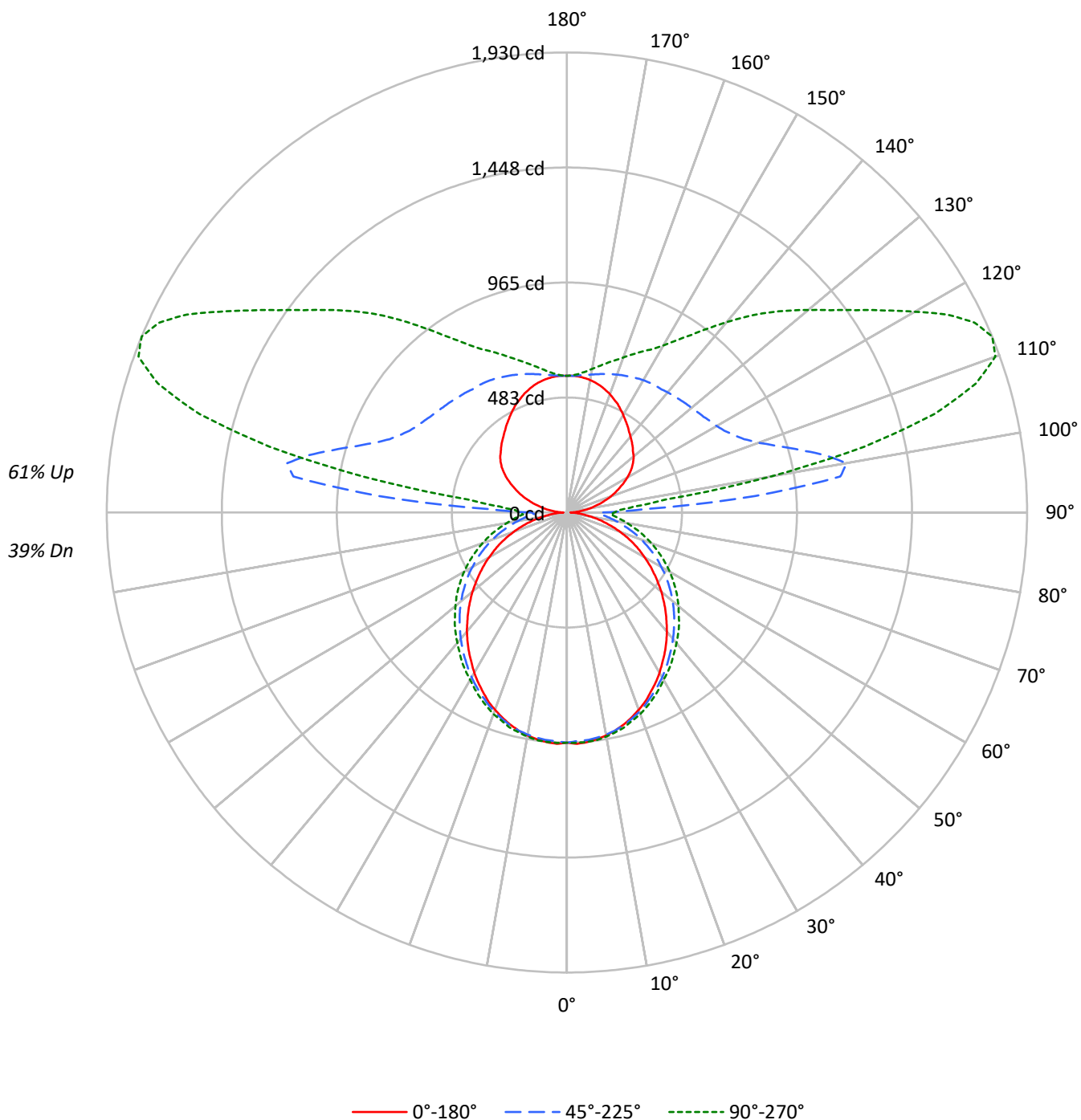
Lumens per Lamp: N/A
Luminaire Lumens: 7575.1 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

TEST NUMBER: P1011954

CATALOG NUMBER: S123DIP-B775D1195UB30-4F0-XX-W2A-D4

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	95	95	95	95	77	77	77	61	61	61	46	46	46
1	95	90	86	82	86	82	78	75	67	64	62	53	51	49	40	38	37
2	86	78	72	66	78	71	66	61	58	54	50	46	43	40	34	33	31
3	78	68	61	55	70	62	56	50	51	46	42	40	37	34	30	28	26
4	71	60	52	46	64	55	48	42	45	40	35	35	32	29	27	24	22
5	65	53	45	39	59	49	42	36	40	35	30	32	28	25	24	21	19
6	60	48	40	34	54	44	37	31	36	30	26	29	25	21	22	19	17
7	55	43	35	29	50	39	32	27	32	27	23	26	22	19	20	17	15
8	51	39	31	26	46	36	29	24	29	24	20	24	20	17	18	15	13
9	48	35	28	23	43	33	26	21	27	22	18	22	18	15	17	14	12
10	44	32	25	20	40	30	23	19	25	20	16	20	16	13	16	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10399	10399	10399
5°	10428	10094	10086
10°	10330	9820	9746
15°	10194	9519	9385
20°	9999	9182	8997
25°	9760	8803	8596
30°	9516	8460	8193
35°	9243	8101	7865
40°	8980	7771	7518
45°	8691	7453	7232
50°	8404	7136	6922
55°	8085	6814	6637
60°	7775	6482	6345
65°	7455	6129	6002
70°	6973	5733	5650
75°	6364	5281	5285
80°	5657	4825	4870
85°	4956	4456	4573

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8691 cd/sqm

TEST NUMBER: P1011954

CATALOG NUMBER: S123DIP-B775D1195UB30-4F0-XX-W2A-D4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.6	1.2
10°-20°	261.3	3.4
20°-30°	390.7	5.2
30°-40°	466.5	6.2
40°-50°	488.1	6.4
50°-60°	458.0	6.0
60°-70°	382.6	5.1
70°-80°	273.6	3.6
80°-90°	166.0	2.2
90°-100°	428.3	5.7
100°-110°	986.3	13.0
110°-120°	938.6	12.4
120°-130°	736.1	9.7
130°-140°	571.3	7.5
140°-150°	419.3	5.5
150°-160°	290.7	3.8
160°-170°	170.7	2.3
170°-180°	55.5	0.7
0°-30°	743.6	9.8
0°-40°	1210.1	16.0
0°-60°	2156.2	28.5
0°-90°	2978.4	39.3
90°-120°	2353.2	31.1
90°-150°	4079.8	53.9
90°-180°	4597.0	60.7
0°-180°	7575.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	966	966	966	966	966	
5°	967	965	959	967	966	92
15°	921	924	923	934	932	259
25°	831	842	845	859	859	383
35°	716	732	746	762	766	448
45°	585	610	637	657	665	451
55°	446	481	519	547	556	400
65°	308	349	396	427	438	305
75°	167	217	269	304	317	179
85°	52	104	160	196	206	53
90°	16	79	148	187	199	13
95°	51	181	793	338	282	51
105°	143	233	1012	1741	1595	152
115°	243	315	770	1647	1886	241
125°	334	394	700	1263	1480	297
135°	390	464	670	1026	1185	301
145°	444	507	649	824	910	278
155°	503	542	628	714	744	231
165°	549	565	602	638	649	155
175°	572	573	577	585	584	54
180°	574	574	574	574	574	

TEST NUMBER: P1011954

CATALOG NUMBER: S123DIP-B775D1195UB30-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	966.1	966.1	966.1	966.1	966.1
2.5°	971.4	968.2	959.8	968.2	967.2
5°	967.2	965.1	958.8	967.2	966.1
7.5°	959.8	959.8	953.5	964.0	963.0
10°	949.3	951.4	946.1	956.7	954.6
12.5°	936.7	939.8	936.7	946.1	944.0
15°	920.9	924.0	923.0	933.5	932.5
17.5°	901.9	908.3	907.2	916.7	914.6
20°	880.9	887.2	889.3	898.8	899.8
22.5°	858.8	865.1	868.3	880.9	879.8
25°	831.4	842.0	845.1	858.8	858.8
27.5°	805.1	816.7	823.0	834.6	835.6
30°	776.7	790.4	798.8	811.4	811.4
32.5°	745.1	760.9	772.5	786.2	789.3
35°	715.7	732.5	746.2	762.0	766.2
37.5°	684.1	703.0	718.8	736.7	739.9
40°	652.5	671.5	692.5	710.4	714.6
42.5°	617.8	642.0	664.1	684.1	690.4
45°	585.2	610.4	636.7	656.7	665.1
47.5°	550.4	578.8	608.3	630.4	636.7
50°	516.8	546.2	578.8	603.1	610.4
52.5°	481.0	512.5	549.4	574.6	584.1
55°	446.2	481.0	518.9	547.3	555.7
57.5°	412.6	448.3	489.4	517.8	527.3
60°	376.8	414.7	457.8	487.3	498.9
62.5°	343.1	382.0	428.3	457.8	468.3
65°	308.4	349.4	395.7	427.3	437.8
67.5°	273.6	316.8	363.1	397.8	406.2
70°	236.8	282.1	332.6	366.3	376.8
72.5°	203.1	248.4	301.0	335.7	346.3
75°	167.3	216.8	269.4	304.2	316.8
77.5°	136.8	186.3	238.9	275.7	285.2
80°	104.2	155.8	210.5	246.3	256.8
82.5°	75.8	128.4	184.2	220.0	230.5
85°	51.6	104.2	160.0	195.8	206.3
87.5°	31.6	84.2	137.9	173.7	184.2
90°	16.0	79.2	147.9	187.2	198.9
92.5°	30.0	127.6	326.5	219.0	216.2
95°	51.1	181.0	792.8	337.7	282.0
97.5°	73.2	195.3	1156.9	634.6	416.4
100°	95.4	205.2	1191.2	1178.8	860.7
102.5°	118.7	217.3	1109.4	1529.6	1278.2
105°	143.1	232.8	1012.5	1741.0	1594.9
107.5°	167.6	251.8	926.1	1829.4	1798.8
110°	194.4	271.4	854.7	1826.0	1912.2

TEST NUMBER: P1011954

CATALOG NUMBER: S123DIP-B775D1195UB30-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	220.0	292.2	804.2	1753.1	1930.3
115°	243.3	314.6	769.9	1646.8	1885.8
117.5°	267.7	334.8	743.9	1533.7	1798.2
120°	292.2	355.0	725.8	1426.4	1684.0
122.5°	314.2	375.0	712.4	1340.6	1577.9
125°	334.1	394.0	700.2	1263.4	1479.7
127.5°	350.4	413.8	691.4	1199.0	1394.5
130°	365.5	432.3	682.7	1139.4	1322.1
132.5°	376.0	449.2	676.3	1083.0	1253.0
135°	389.9	463.8	669.8	1026.1	1185.2
137.5°	402.7	476.6	663.3	971.1	1115.0
140°	414.5	488.2	657.9	918.2	1042.5
142.5°	428.4	497.6	651.4	868.3	973.4
145°	443.5	506.8	649.1	824.2	910.2
147.5°	457.5	516.7	645.6	788.7	856.2
150°	472.6	524.8	641.0	758.8	809.1
152.5°	487.7	533.6	635.2	735.6	772.2
155°	502.8	542.2	628.2	714.2	744.3
157.5°	514.4	549.8	622.4	693.2	717.6
160°	528.3	556.2	615.4	674.0	692.1
162.5°	538.8	560.8	608.5	656.0	668.8
165°	549.2	564.9	601.5	638.1	649.1
167.5°	557.4	568.4	594.5	622.4	629.4
170°	564.3	570.2	587.6	608.4	611.9
172.5°	569.0	571.9	581.7	596.2	595.7
175°	572.5	573.0	577.1	585.2	584.1
177.5°	574.8	573.6	573.6	578.3	575.9
180°	573.6	573.6	573.6	573.6	573.6

(END OF REPORT)