

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: P1011899

Luminaire Tested: S123DIP-B775D1025UB27-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011899
REPORT IS A COMBINATION OF REPORTS P990223 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B775D1025UB27-4F0-XX-W2A-D1
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

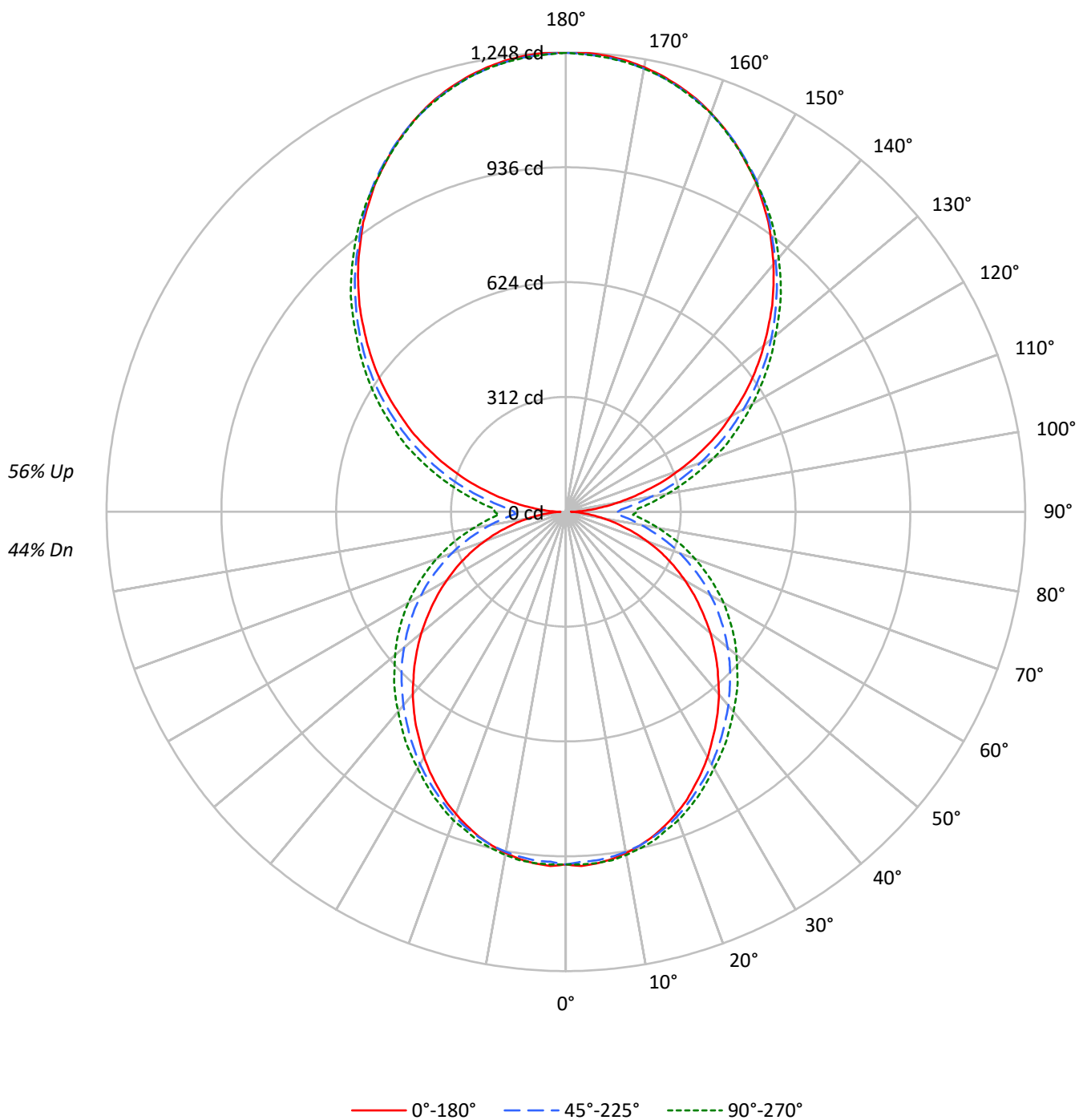
Lumens per Lamp: N/A
Luminaire Lumens: 6677.9 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 64.4
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: P1011899

CATALOG NUMBER: S123DIP-B775D1025UB27-4F0-XX-W2A-D1

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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51
1	96	91	87	83	87	83	80	76	69	66	64	56	54	52	43	42	41
2	87	79	72	67	79	72	67	62	60	56	52	48	45	43	38	36	34
3	79	69	61	55	72	63	57	51	52	47	43	42	39	36	33	31	28
4	72	61	53	46	65	56	49	43	46	41	37	38	34	30	29	27	24
5	66	54	46	40	60	50	42	37	41	36	31	34	29	26	26	23	21
6	61	48	40	34	55	44	37	32	37	31	27	30	26	23	24	21	18
7	56	44	35	30	51	40	33	28	34	28	24	27	23	20	22	19	16
8	52	39	32	26	47	36	29	24	31	25	21	25	21	18	20	17	14
9	48	36	28	23	44	33	26	22	28	23	19	23	19	16	18	15	13
10	45	33	26	21	41	30	24	19	26	20	17	21	17	14	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10313	10313	10313
5°	10342	10010	10002
10°	10244	9739	9665
15°	10109	9440	9307
20°	9917	9106	8923
25°	9679	8730	8525
30°	9437	8391	8125
35°	9165	8033	7800
40°	8906	7706	7456
45°	8618	7390	7172
50°	8334	7077	6864
55°	8018	6756	6582
60°	7709	6428	6291
65°	7392	6078	5953
70°	6915	5685	5602
75°	6311	5238	5242
80°	5608	4784	4830
85°	4908	4417	4535

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8618 cd/sqm

TEST NUMBER: P1011899

CATALOG NUMBER: S123DIP-B775D1025UB27-4F0-XX-W2A-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.9	1.4
10°-20°	259.1	3.9
20°-30°	387.5	5.8
30°-40°	462.6	6.9
40°-50°	484.0	7.2
50°-60°	454.2	6.8
60°-70°	379.4	5.7
70°-80°	271.3	4.1
80°-90°	164.0	2.5
90°-100°	181.7	2.7
100°-110°	317.5	4.8
110°-120°	463.4	6.9
120°-130°	572.6	8.6
130°-140°	624.4	9.4
140°-150°	604.0	9.0
150°-160°	506.3	7.6
160°-170°	337.0	5.0
170°-180°	118.0	1.8
0°-30°	737.5	11.0
0°-40°	1200.1	18.0
0°-60°	2138.3	32.0
0°-90°	2953.0	44.2
90°-120°	962.6	14.4
90°-150°	2763.6	41.4
90°-180°	3725.0	55.8
0°-180°	6677.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	958	958	958	958	958	
5°	959	957	951	959	958	91
15°	913	916	915	926	925	257
25°	824	835	838	852	852	380
35°	710	726	740	756	760	444
45°	580	605	631	651	660	447
55°	442	477	514	543	551	396
65°	306	346	392	424	434	302
75°	166	215	267	302	314	177
85°	51	103	159	194	205	53
90°	15	76	141	181	193	14
95°	69	117	176	212	222	73
105°	229	256	310	339	350	244
115°	422	437	473	499	506	417
125°	612	615	644	662	665	547
135°	793	797	808	823	826	611
145°	960	961	964	971	972	599
155°	1098	1098	1099	1103	1096	506
165°	1196	1193	1193	1199	1192	337
175°	1244	1240	1240	1246	1239	118
180°	1247	1247	1247	1247	1247	

TEST NUMBER: P1011899

CATALOG NUMBER: S123DIP-B775D1025UB27-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	958.1	958.1	958.1	958.1	958.1
2.5°	963.3	960.2	951.8	960.2	959.2
5°	959.2	957.1	950.8	959.2	958.1
7.5°	951.8	951.8	945.6	956.0	955.0
10°	941.4	943.5	938.3	948.7	946.6
12.5°	928.9	932.0	928.9	938.3	936.2
15°	913.2	916.4	915.3	925.8	924.7
17.5°	894.4	900.7	899.7	909.1	907.0
20°	873.6	879.8	881.9	891.3	892.4
22.5°	851.7	857.9	861.0	873.6	872.5
25°	824.5	835.0	838.1	851.7	851.7
27.5°	798.4	809.9	816.2	827.6	828.7
30°	770.2	783.8	792.2	804.7	804.7
32.5°	738.9	754.6	766.1	779.6	782.8
35°	709.7	726.4	740.0	755.6	759.8
37.5°	678.4	697.2	712.8	730.6	733.7
40°	647.1	665.9	686.7	704.5	708.7
42.5°	612.6	636.7	658.6	678.4	684.7
45°	580.3	605.3	631.4	651.3	659.6
47.5°	545.9	574.0	603.3	625.2	631.4
50°	512.5	541.7	574.0	598.0	605.3
52.5°	477.0	508.3	544.8	569.9	579.2
55°	442.5	477.0	514.5	542.7	551.1
57.5°	409.1	444.6	485.3	513.5	522.9
60°	373.6	411.2	454.0	483.2	494.7
62.5°	340.2	378.9	424.8	454.0	464.4
65°	305.8	346.5	392.4	423.7	434.2
67.5°	271.4	314.2	360.1	394.5	402.9
70°	234.8	279.7	329.8	363.2	373.6
72.5°	201.4	246.3	298.5	332.9	343.4
75°	165.9	215.0	267.2	301.6	314.2
77.5°	135.7	184.7	236.9	273.4	282.8
80°	103.3	154.5	208.7	244.2	254.7
82.5°	75.1	127.3	182.6	218.1	228.6
85°	51.1	103.3	158.6	194.1	204.6
87.5°	31.3	83.5	136.7	172.2	182.6
90°	14.6	75.5	141.4	180.8	193.3
92.5°	41.9	92.7	150.7	188.1	195.5
95°	69.3	116.9	175.8	212.1	222.5
97.5°	105.4	147.9	202.9	239.1	248.5
100°	142.6	181.9	234.8	268.0	280.4
102.5°	185.6	217.8	271.6	303.8	313.3
105°	228.7	255.8	309.5	338.7	350.0
107.5°	278.7	301.5	348.3	379.4	387.8
110°	324.7	345.3	389.1	420.1	426.6

TEST NUMBER: P1011899

CATALOG NUMBER: S123DIP-B775D1025UB27-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	373.7	389.2	428.8	459.8	469.2
115°	421.5	437.0	472.6	498.7	506.0
117.5°	471.5	480.9	514.4	539.4	544.9
120°	516.5	527.6	557.1	580.1	585.5
122.5°	564.5	570.6	600.9	621.0	625.3
125°	612.4	615.4	643.7	661.7	665.1
127.5°	657.5	662.4	686.5	701.5	704.9
130°	702.5	709.4	727.3	743.2	742.7
132.5°	746.6	754.4	768.1	782.0	784.4
135°	792.7	797.4	808.0	822.8	826.1
137.5°	834.8	838.6	848.8	860.6	863.0
140°	877.8	882.7	886.8	901.5	899.8
142.5°	917.9	921.8	923.8	936.4	936.7
145°	960.0	961.0	963.9	971.3	971.5
147.5°	995.3	999.2	1002.2	1005.3	1003.6
150°	1033.5	1035.5	1037.4	1037.4	1033.6
152.5°	1064.8	1067.8	1068.8	1070.7	1065.8
155°	1098.2	1098.2	1099.1	1103.1	1096.2
157.5°	1126.6	1125.6	1126.6	1130.5	1124.6
160°	1153.0	1151.1	1151.1	1156.0	1152.0
162.5°	1176.5	1173.6	1174.6	1179.5	1172.6
165°	1196.1	1193.2	1193.2	1199.1	1192.2
167.5°	1212.8	1208.9	1209.8	1215.7	1209.8
170°	1226.5	1222.6	1222.6	1229.4	1222.6
172.5°	1237.3	1233.3	1233.3	1239.2	1232.4
175°	1244.1	1240.2	1240.2	1246.1	1239.2
177.5°	1248.0	1244.1	1244.1	1250.0	1243.1
180°	1247.1	1247.1	1247.1	1247.1	1247.1

(END OF REPORT)