

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: P1010699

Luminaire Tested: S123DIP-B775D1025UB2750-4F0-XX-W2A-D_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010699
REPORT IS A COMBINATION OF REPORTS P990233 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B775D1025UB2750-4F0-XX-W2A-D_2700K
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

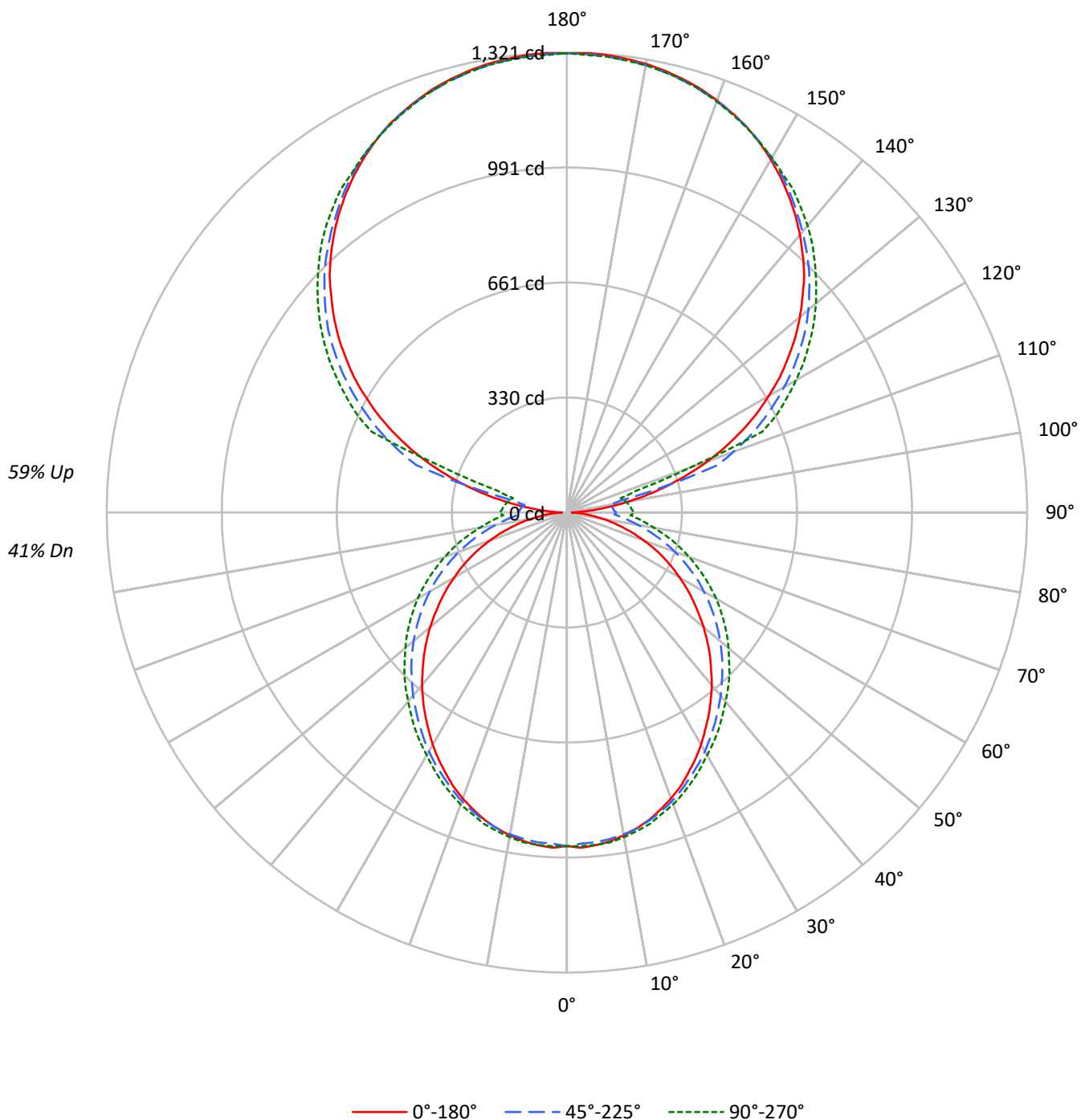
Lumens per Lamp: N/A
Luminaire Lumens: 7243.0 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 64.4
Input Voltage (V): 120
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
RCR																	
0	105	105	105	105	96	96	96	96	78	78	78		62	62	62		48
1	95	90	86	82	86	82	79	75	67	65	62		53	52	50		41
2	86	78	72	66	78	71	66	61	58	54	51		46	44	41		35
3	78	68	61	55	71	62	56	51	51	46	42		41	37	34		31
4	71	60	52	46	65	55	48	43	45	40	36		36	32	29		28
5	65	54	45	39	59	49	42	36	40	35	31		32	28	25		25
6	60	48	40	34	54	44	37	31	36	31	27		29	25	22		22
7	56	43	35	30	50	40	32	27	33	27	23		26	22	19		20
8	51	39	31	26	47	36	29	24	30	24	21		24	20	17		19
9	48	36	28	23	43	33	26	21	27	22	18		22	18	15		17
10	45	33	25	21	41	30	24	19	25	20	16		20	16	14		16

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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.9	1.3
10°-20°	259.1	3.6
20°-30°	387.5	5.3
30°-40°	462.6	6.4
40°-50°	484.0	6.7
50°-60°	454.2	6.3
60°-70°	379.4	5.2
70°-80°	271.3	3.7
80°-90°	164.0	2.3
90°-100°	147.9	2.0
100°-110°	299.4	4.1
110°-120°	600.8	8.3
120°-130°	727.9	10.0
130°-140°	759.9	10.5
140°-150°	701.4	9.7
150°-160°	563.6	7.8
160°-170°	363.7	5.0
170°-180°	125.3	1.7
0°-30°	737.5	10.2
0°-40°	1200.1	16.6
0°-60°	2138.3	29.5
0°-90°	2953.0	40.8
90°-120°	1048.1	14.5
90°-150°	3237.3	44.7
90°-180°	4290.0	59.2
0°-180°	7243.0	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	13
95°	71	72	134	173	183	80
105°	300	336	293	149	160	318
115°	553	571	618	653	665	546
125°	775	783	817	841	850	693
135°	963	968	983	1005	1007	742
145°	1110	1116	1118	1128	1132	695
155°	1222	1220	1221	1226	1220	563
165°	1288	1286	1284	1292	1286	364
175°	1319	1314	1315	1322	1314	126
180°	1319	1319	1319	1319	1319	

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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°	35.0	74.1	135.1	176.3	186.7
95°	71.3	71.8	133.7	172.9	183.3
97.5°	119.2	129.3	128.5	167.6	179.0
100°	175.0	228.0	123.1	161.3	172.7
102.5°	238.5	280.6	157.0	154.0	166.3
105°	300.3	336.1	292.9	148.7	160.0
107.5°	364.9	395.6	453.1	330.4	211.5
110°	429.6	456.1	508.7	503.4	371.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	492.3	513.7	564.1	599.0	606.5
115°	552.9	571.3	617.7	652.6	664.8
117.5°	613.6	628.9	669.3	702.1	711.5
120°	668.5	682.5	719.8	751.7	759.0
122.5°	725.3	734.3	770.5	798.4	806.7
125°	775.2	783.0	817.2	841.1	850.3
127.5°	826.1	832.9	863.9	887.8	893.1
130°	873.1	880.0	904.8	928.5	932.8
132.5°	917.2	925.0	943.6	966.3	970.7
135°	963.3	968.0	983.4	1005.2	1007.4
137.5°	1002.4	1009.2	1018.4	1040.0	1043.4
140°	1040.5	1046.4	1052.5	1072.1	1075.3
142.5°	1076.8	1081.7	1084.6	1101.1	1103.4
145°	1110.1	1116.0	1117.9	1128.2	1132.4
147.5°	1141.4	1146.3	1148.3	1153.3	1152.6
150°	1170.8	1173.8	1175.7	1177.7	1176.8
152.5°	1197.3	1198.3	1199.2	1203.2	1198.3
155°	1221.8	1219.8	1220.8	1225.7	1219.8
157.5°	1241.4	1241.4	1240.4	1246.3	1238.4
160°	1259.0	1258.0	1257.0	1262.9	1256.1
162.5°	1275.7	1272.7	1271.7	1278.6	1272.7
165°	1288.4	1285.5	1284.5	1292.3	1285.5
167.5°	1299.2	1295.3	1295.3	1303.1	1295.3
170°	1308.0	1304.1	1304.1	1311.9	1304.1
172.5°	1313.9	1309.0	1309.9	1317.8	1309.0
175°	1318.8	1313.9	1314.8	1321.7	1313.9
177.5°	1320.7	1315.8	1316.8	1324.6	1314.8
180°	1318.8	1318.8	1318.8	1318.8	1318.8

(END OF REPORT)