

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: P1010744

Luminaire Tested: S123DIP-B775D585UB2750-4F0-XX-W2A-D_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010744
REPORT IS A COMBINATION OF REPORTS P990413 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B775D585UB2750-4F0-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

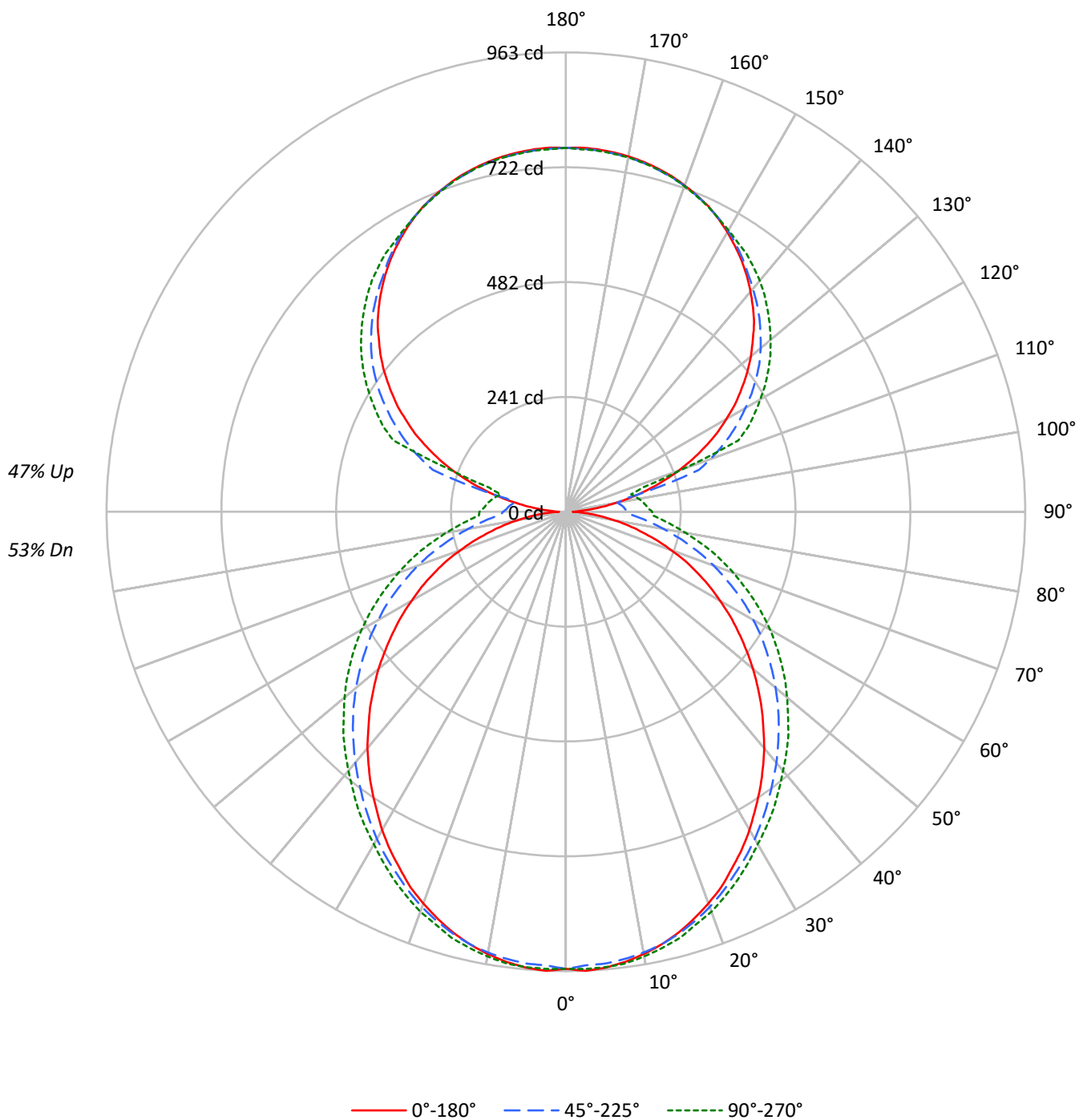
Lumens per Lamp: N/A
Luminaire Lumens: 5546.9 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 51.3
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

TEST NUMBER: P1010744

CATALOG NUMBER: S123DIP-B775D585UB2750-4F0-XX-W2A-D_2700K

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	108	108	108	108	100	100	100	100	85	85	85		72	72	72		59
1	97	93	88	84	90	86	82	79	73	70	68		61	59	57		50
2	88	80	74	68	81	74	69	64	63	59	55		53	50	47		44
3	80	70	62	56	74	65	58	53	55	50	46		47	43	39		38
4	73	62	54	47	67	57	50	44	49	43	39		41	37	33		34
5	67	55	46	40	62	51	44	38	44	38	33		37	32	29		31
6	62	49	41	35	57	46	38	33	39	33	29		33	29	25		28
7	57	44	36	30	53	41	34	29	36	30	25		30	26	22		25
8	53	40	32	27	49	38	30	25	32	27	22		28	23	20		23
9	49	37	29	24	46	34	27	23	30	24	20		25	21	18		21
10	46	34	26	21	43	32	25	20	27	22	18		24	19	16		20

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: P1010744

CATALOG NUMBER: S123DIP-B775D585UB2750-4F0-XX-W2A-D_2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.9	1.6
10°-20°	259.1	4.7
20°-30°	387.5	7.0
30°-40°	462.6	8.3
40°-50°	484.0	8.7
50°-60°	454.2	8.2
60°-70°	379.4	6.8
70°-80°	271.3	4.9
80°-90°	162.9	2.9
90°-100°	128.3	2.3
100°-110°	204.6	3.7
110°-120°	368.5	6.6
120°-130°	433.0	7.8
130°-140°	444.9	8.0
140°-150°	406.8	7.3
150°-160°	326.0	5.9
160°-170°	210.4	3.8
170°-180°	72.5	1.3
0°-30°	737.5	13.3
0°-40°	1200.1	21.6
0°-60°	2138.3	38.5
0°-90°	2951.9	53.2
90°-120°	701.4	12.6
90°-150°	1986.2	35.8
90°-180°	2595.0	46.8
0°-180°	5546.9	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°	14	71	132	169	181	12
95°	46	64	121	157	168	50
105°	177	208	202	131	142	187
115°	322	338	381	411	422	318
125°	450	454	487	510	518	402
135°	558	560	574	595	598	430
145°	642	646	647	656	660	402
155°	707	706	706	709	706	326
165°	745	744	743	748	744	211
175°	763	760	760	764	760	73
180°	763	763	763	763	763	

TEST NUMBER: P1010744

CATALOG NUMBER: S123DIP-B775D585UB2750-4F0-XX-W2A-D_2700K

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°	14.2	70.9	131.5	169.3	180.9
92.5°	25.5	67.0	124.3	162.7	172.7
95°	46.1	63.5	120.9	157.2	167.6
97.5°	73.3	95.0	115.2	151.1	162.0
100°	105.2	149.9	109.5	144.3	155.3
102.5°	141.5	178.1	126.4	137.0	148.6
105°	177.2	208.5	202.4	131.3	141.8
107.5°	214.2	241.2	292.5	233.4	168.5
110°	251.1	274.4	322.4	330.8	258.1

TEST NUMBER: P1010744

CATALOG NUMBER: S123DIP-B775D585UB2750-4F0-XX-W2A-D_2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	287.4	306.0	351.8	383.0	391.3
115°	322.0	337.9	380.6	411.4	421.9
117.5°	357.1	369.5	407.8	437.4	446.3
120°	388.4	398.7	434.8	463.4	470.7
122.5°	421.3	427.4	461.9	487.8	495.6
125°	449.7	454.2	486.8	509.8	518.2
127.5°	479.1	482.7	511.6	534.2	540.4
130°	506.3	509.9	533.0	555.1	560.3
132.5°	531.4	536.0	553.3	574.3	579.9
135°	558.1	560.4	574.1	594.6	598.1
137.5°	580.7	584.2	592.6	612.1	616.3
140°	602.3	605.7	610.6	628.5	632.5
142.5°	623.3	625.7	627.4	642.7	646.2
145°	642.5	645.5	646.6	656.1	660.3
147.5°	660.2	663.1	664.2	668.4	669.8
150°	677.2	678.9	680.1	681.2	681.6
152.5°	692.5	693.1	693.7	695.9	693.1
155°	706.7	705.6	706.1	709.0	705.6
157.5°	718.0	718.0	717.5	720.9	716.3
160°	728.2	727.7	727.1	730.5	726.5
162.5°	737.9	736.2	735.6	739.6	736.2
165°	745.2	743.5	743.0	747.5	743.5
167.5°	751.5	749.2	749.2	753.7	749.2
170°	756.6	754.3	754.3	758.8	754.3
172.5°	760.0	757.1	757.7	762.2	757.1
175°	762.8	760.0	760.5	764.5	760.0
177.5°	763.9	761.1	761.7	766.2	760.5
180°	762.8	762.8	762.8	762.8	762.8

(END OF REPORT)