

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: P1012085

Luminaire Tested: S123DIP-B775D805UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012085
REPORT IS A COMBINATION OF REPORTS P990487 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B775D805UB30-4F0-XX-W2A-D1
Description: Define 3 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

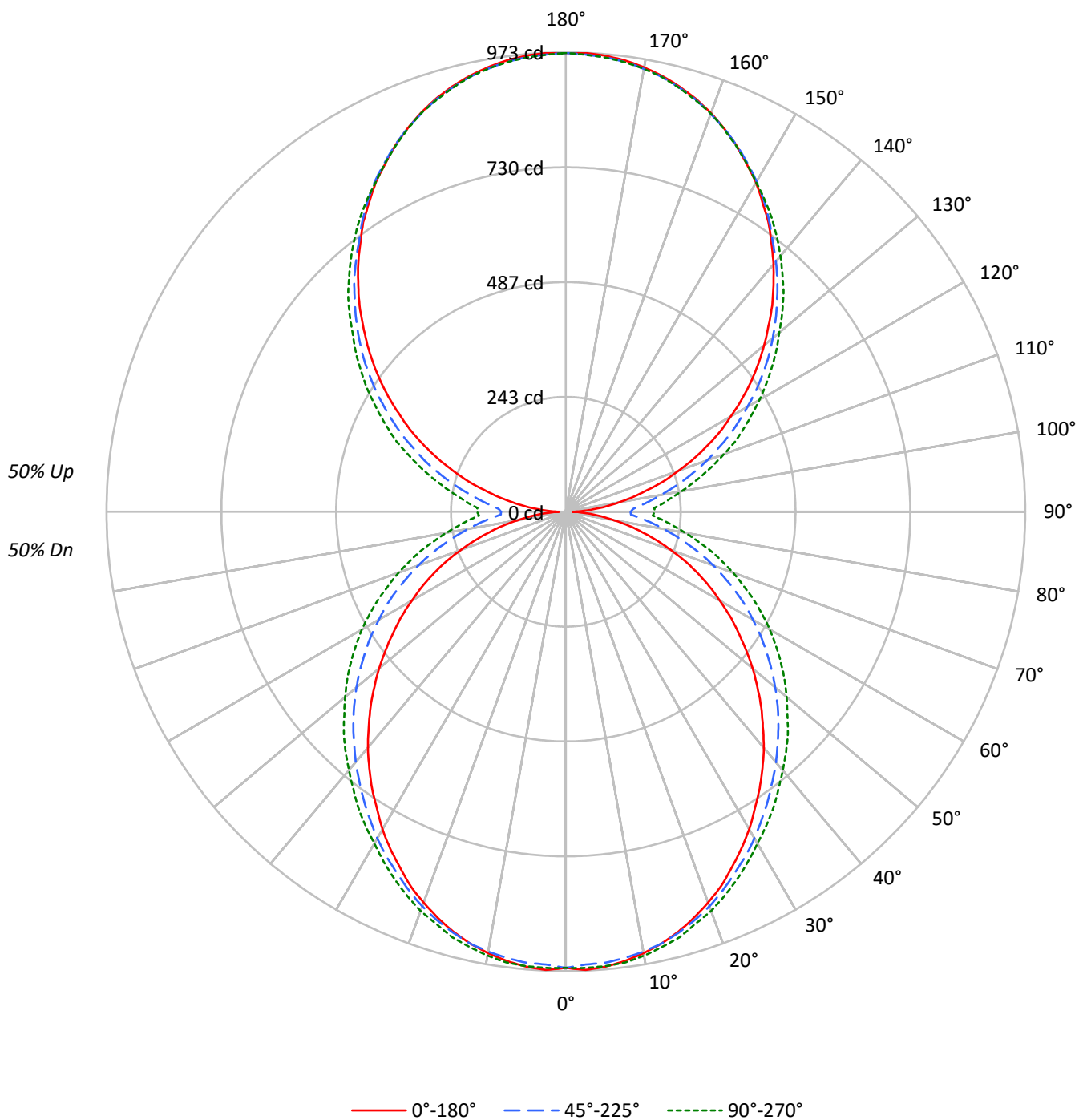
Lumens per Lamp: N/A
Luminaire Lumens: 5942.1 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 57
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: P1012085

CATALOG NUMBER: S123DIP-B775D805UB30-4F0-XX-W2A-D1

Luminous Intensity Polar Plot



TEST NUMBER: P1012085

CATALOG NUMBER: S123DIP-B775D805UB30-4F0-XX-W2A-D1

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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56
1	97	92	88	84	89	85	81	78	72	69	66	59	57	55	48	47	45
2	88	80	73	68	80	74	68	63	62	58	54	51	48	46	42	39	37
3	80	70	62	56	73	64	58	52	54	49	45	45	41	38	37	34	31
4	73	61	53	47	67	57	50	44	48	42	38	40	36	32	32	29	27
5	67	55	46	40	61	51	43	37	43	37	33	36	31	28	29	26	23
6	61	49	41	35	56	45	38	32	39	33	28	32	28	24	26	23	20
7	57	44	36	30	52	41	34	28	35	29	25	29	25	21	24	21	18
8	53	40	32	27	48	37	30	25	32	26	22	27	22	19	22	19	16
9	49	36	29	24	45	34	27	22	29	24	20	25	20	17	20	17	14
10	46	33	26	21	42	31	24	20	27	21	18	23	18	15	19	15	13

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: P1012085

CATALOG NUMBER: S123DIP-B775D805UB30-4F0-XX-W2A-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.6	1.5
10°-20°	261.3	4.4
20°-30°	390.7	6.6
30°-40°	466.5	7.9
40°-50°	488.1	8.2
50°-60°	458.0	7.7
60°-70°	382.6	6.4
70°-80°	273.6	4.6
80°-90°	164.9	2.8
90°-100°	164.9	2.8
100°-110°	264.5	4.5
110°-120°	372.6	6.3
120°-130°	452.8	7.6
130°-140°	489.5	8.2
140°-150°	471.3	7.9
150°-160°	394.6	6.6
160°-170°	262.7	4.4
170°-180°	92.0	1.5
0°-30°	743.6	12.5
0°-40°	1210.1	20.4
0°-60°	2156.2	36.3
0°-90°	2977.2	50.1
90°-120°	802.0	13.5
90°-150°	2215.6	37.3
90°-180°	2965.0	49.9
0°-180°	5942.1	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°	14	74	137	176	188	13
95°	57	103	161	196	207	59
105°	180	207	259	289	300	192
115°	330	345	381	407	415	327
125°	478	480	509	528	533	427
135°	618	622	632	648	652	476
145°	748	749	751	759	760	467
155°	856	856	857	860	854	394
165°	932	930	930	934	929	263
175°	970	967	967	971	966	92
180°	972	972	972	972	972	

TEST NUMBER: P1012085

CATALOG NUMBER: S123DIP-B775D805UB30-4F0-XX-W2A-D1

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°	14.5	73.7	137.2	176.1	188.1
92.5°	35.5	85.4	142.6	179.6	187.5
95°	56.6	103.0	160.7	196.4	206.9
97.5°	84.6	126.3	180.4	215.8	225.5
100°	113.3	151.6	203.8	236.6	248.6
102.5°	146.6	178.4	231.0	262.8	272.5
105°	180.2	207.0	259.1	288.6	299.6
107.5°	218.9	241.7	287.9	318.6	327.3
110°	254.4	275.0	318.6	348.9	355.8

TEST NUMBER: P1012085

CATALOG NUMBER: S123DIP-B775D805UB30-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	292.6	308.1	348.1	378.3	387.7
115°	329.8	344.7	381.0	407.0	414.7
117.5°	368.7	377.9	412.1	437.3	443.5
120°	403.5	413.4	444.3	467.7	473.6
122.5°	440.9	446.1	477.1	498.0	503.2
125°	478.1	480.4	509.3	528.4	532.6
127.5°	513.2	516.7	541.5	558.0	562.2
130°	548.3	553.3	572.1	589.1	590.0
132.5°	582.3	588.4	602.7	617.8	621.4
135°	618.2	621.8	632.5	648.5	652.2
137.5°	651.0	653.9	663.5	676.5	679.4
140°	684.4	688.2	692.1	707.1	707.1
142.5°	715.7	718.4	720.0	732.9	734.3
145°	748.5	749.0	751.3	758.9	760.0
147.5°	775.7	778.7	781.0	784.2	783.8
150°	805.5	807.0	808.5	808.5	806.0
152.5°	829.9	832.2	832.9	834.5	830.7
155°	855.8	855.8	856.6	859.7	854.3
157.5°	878.0	877.2	878.0	881.0	876.5
160°	898.6	897.1	897.1	900.9	897.8
162.5°	916.9	914.6	915.4	919.2	913.9
165°	932.2	929.9	929.9	934.5	929.1
167.5°	945.2	942.1	942.9	947.5	942.9
170°	955.9	952.8	952.8	958.2	952.8
172.5°	964.3	961.2	961.2	965.8	960.4
175°	969.6	966.6	966.6	971.1	965.8
177.5°	972.7	969.6	969.6	974.2	968.8
180°	971.9	971.9	971.9	971.9	971.9

(END OF REPORT)