

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: P1011998

Luminaire Tested: S123DIP-B775D365UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011998
REPORT IS A COMBINATION OF REPORTS P990367 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B775D365UB30-4F0-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

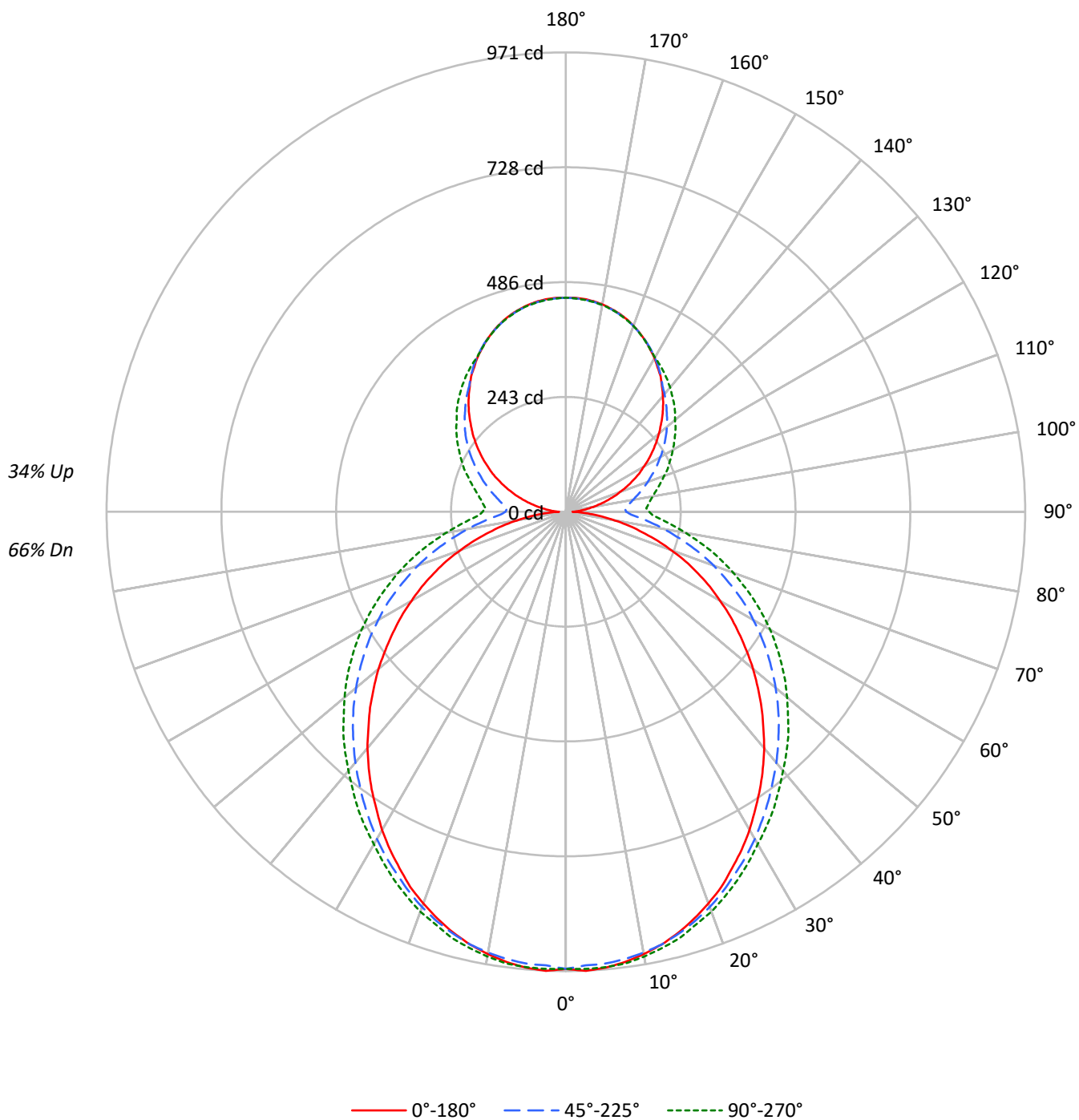
Lumens per Lamp: N/A
Luminaire Lumens: 4502.1 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 45.2
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: P1011998

CATALOG NUMBER: S123DIP-B775D365UB30-4F0-XX-W2A-D1

Luminous Intensity Polar Plot



TEST NUMBER: P1011998

CATALOG NUMBER: S123DIP-B775D365UB30-4F0-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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	71	71	71
1	100	95	90	86	94	89	85	82	79	76	73	69	67	65	61	59	57
2	91	82	75	69	85	77	71	66	68	64	59	60	56	53	52	50	47
3	82	72	64	57	77	68	60	55	60	54	49	53	48	44	46	43	39
4	75	63	55	48	70	60	52	46	53	47	42	47	42	38	41	37	34
5	69	56	48	41	64	53	45	39	47	41	36	42	37	32	37	33	29
6	63	51	42	36	59	48	40	34	43	36	31	38	32	28	33	29	26
7	59	46	37	31	55	43	35	30	39	32	27	34	29	25	30	26	23
8	55	41	33	28	51	39	32	27	35	29	24	31	26	22	28	23	20
9	51	38	30	25	48	36	29	24	32	26	22	29	24	20	26	21	18
10	47	35	27	22	45	33	26	21	30	24	20	27	22	18	24	20	17

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: P1011998

CATALOG NUMBER: S123DIP-B775D365UB30-4F0-XX-W2A-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.6	2.0
10°-20°	261.3	5.8
20°-30°	390.7	8.7
30°-40°	466.5	10.4
40°-50°	488.1	10.8
50°-60°	458.0	10.2
60°-70°	382.6	8.5
70°-80°	273.6	6.1
80°-90°	163.8	3.6
90°-100°	131.4	2.9
100°-110°	163.4	3.6
110°-120°	200.3	4.4
120°-130°	226.1	5.0
130°-140°	234.8	5.2
140°-150°	220.9	4.9
150°-160°	183.8	4.1
160°-170°	122.3	2.7
170°-180°	42.8	1.0
0°-30°	743.6	16.5
0°-40°	1210.1	26.9
0°-60°	2156.2	47.9
0°-90°	2976.1	66.1
90°-120°	495.1	11.0
90°-150°	1177.1	26.1
90°-180°	1526.0	33.9
0°-180°	4502.1	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	69	127	165	176	11
95°	33	76	130	164	175	32
105°	88	114	163	192	202	94
115°	156	170	207	233	241	155
125°	224	225	255	276	282	200
135°	289	290	301	319	323	223
145°	349	349	350	358	361	218
155°	398	398	399	400	398	183
165°	434	433	433	435	433	122
175°	452	450	450	452	450	43
180°	453	453	453	453	453	

TEST NUMBER: P1011998

CATALOG NUMBER: S123DIP-B775D365UB30-4F0-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°	14.1	69.2	127.4	164.7	175.9
92.5°	23.3	70.7	125.4	161.2	170.0
95°	32.6	76.1	130.5	164.5	175.0
97.5°	45.0	84.7	136.3	169.7	179.8
100°	57.9	93.7	143.9	175.4	186.6
102.5°	72.8	103.3	153.1	183.7	193.8
105°	88.4	114.4	162.8	192.3	202.5
107.5°	105.9	128.3	172.9	202.3	211.5
110°	121.8	141.6	184.4	213.1	220.8

TEST NUMBER: P1011998

CATALOG NUMBER: S123DIP-B775D365UB30-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	139.6	154.7	194.7	222.9	232.3
115°	156.4	170.1	207.3	232.8	241.0
117.5°	174.5	183.3	218.4	243.6	250.9
120°	190.1	197.6	230.5	254.3	261.0
122.5°	207.6	211.1	243.0	265.1	271.4
125°	224.3	225.4	255.2	275.9	281.8
127.5°	240.7	241.7	267.3	286.3	292.2
130°	257.0	258.8	278.8	297.4	301.2
132.5°	272.3	275.1	290.2	307.4	313.0
135°	289.0	290.1	301.3	318.9	323.4
137.5°	304.3	305.1	313.4	328.6	332.7
140°	319.3	321.1	324.5	340.0	342.8
142.5°	333.9	334.6	335.3	348.6	352.0
145°	349.2	348.8	349.8	357.9	360.7
147.5°	361.2	362.6	363.7	366.9	369.0
150°	375.1	375.8	376.5	376.5	376.5
152.5°	386.5	387.5	387.9	388.6	386.8
155°	398.5	398.5	398.9	400.3	397.8
157.5°	408.9	408.5	408.9	410.3	408.1
160°	418.5	417.7	417.7	419.5	418.1
162.5°	427.0	425.9	426.3	428.1	425.6
165°	434.1	433.0	433.0	435.2	432.7
167.5°	440.1	438.7	439.1	441.2	439.1
170°	445.1	443.7	443.7	446.2	443.7
172.5°	449.0	447.6	447.6	449.7	447.3
175°	451.5	450.1	450.1	452.2	449.7
177.5°	452.9	451.5	451.5	453.7	451.2
180°	452.6	452.6	452.6	452.6	452.6

(END OF REPORT)