

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: P1011997

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

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011997
REPORT IS A COMBINATION OF REPORTS P990366 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-D
Description: Define 3 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

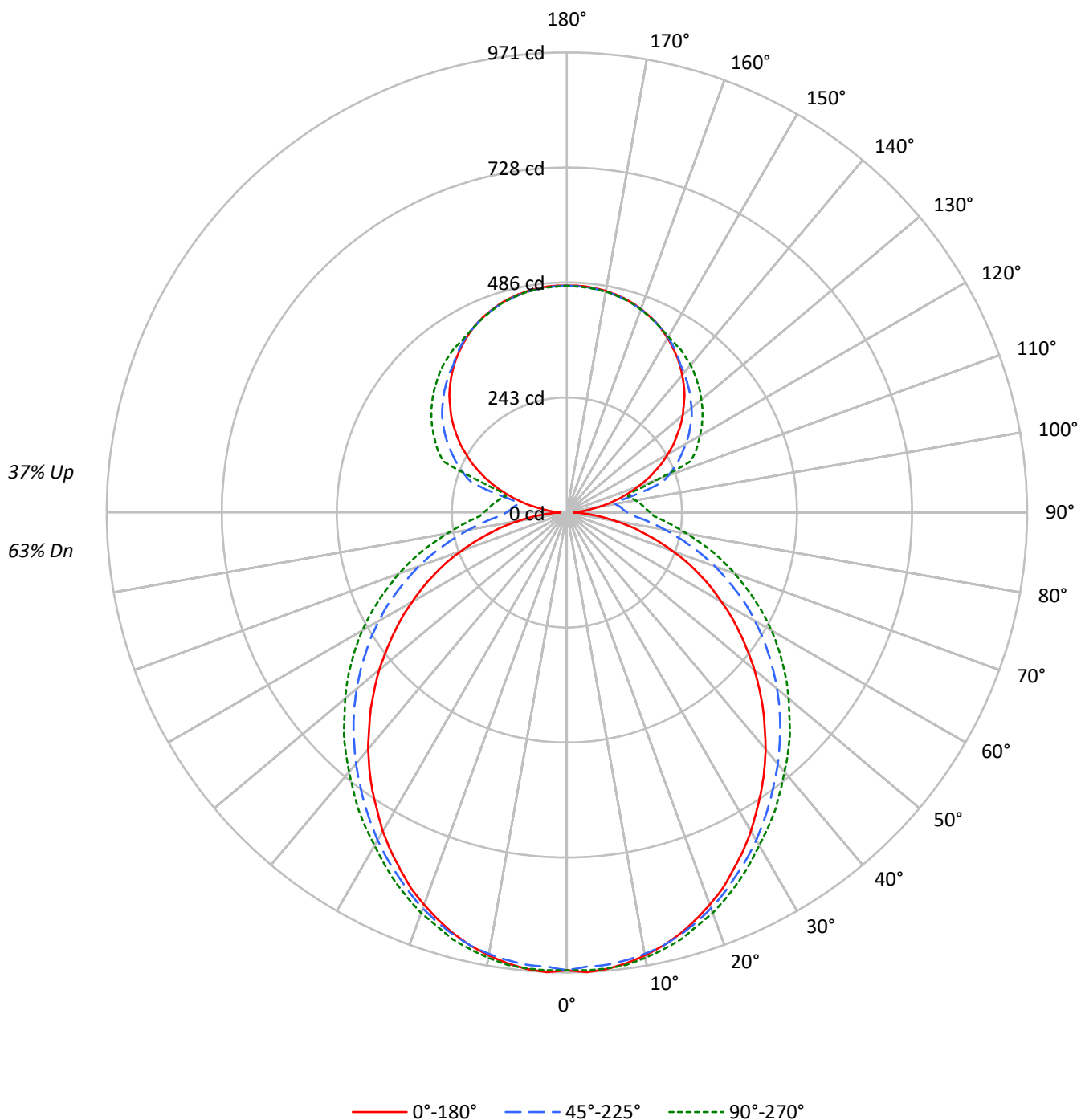
Lumens per Lamp: N/A
Luminaire Lumens: 4707.1 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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

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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	30	10
RCR																	
0	110	110	110	110	103	103	103	103	91	91	91	79	79	79	68	68	68
1	99	94	90	86	93	89	85	81	78	75	72	68	65	63	58	57	55
2	90	82	75	69	84	77	71	65	67	63	58	59	55	52	51	48	45
3	82	71	63	57	76	67	60	54	59	53	49	51	47	43	44	41	38
4	75	63	54	48	70	59	52	46	52	46	41	46	41	37	39	36	32
5	69	56	47	41	64	53	45	39	47	40	35	41	36	32	35	31	28
6	63	50	42	35	59	47	40	34	42	35	31	37	32	28	32	28	25
7	58	45	37	31	54	43	35	30	38	32	27	33	28	24	29	25	22
8	54	41	33	27	51	39	31	26	35	28	24	31	25	22	27	23	19
9	50	38	30	24	47	36	28	23	32	26	21	28	23	19	25	21	18
10	47	35	27	22	44	33	26	21	29	23	19	26	21	18	23	19	16

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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.6	1.9
10°-20°	261.3	5.6
20°-30°	390.7	8.3
30°-40°	466.5	9.9
40°-50°	488.1	10.4
50°-60°	458.0	9.7
60°-70°	382.6	8.1
70°-80°	273.6	5.8
80°-90°	163.8	3.5
90°-100°	119.2	2.5
100°-110°	156.8	3.3
110°-120°	250.2	5.3
120°-130°	282.5	6.0
130°-140°	284.0	6.0
140°-150°	256.3	5.4
150°-160°	204.6	4.3
160°-170°	132.0	2.8
170°-180°	45.5	1.0
0°-30°	743.6	15.8
0°-40°	1210.1	25.7
0°-60°	2156.2	45.8
0°-90°	2976.1	63.2
90°-120°	526.1	11.2
90°-150°	1348.9	28.7
90°-180°	1731.0	36.8
0°-180°	4707.1	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	60	115	150	161	35
105°	114	144	157	123	134	121
115°	204	219	260	289	299	202
125°	283	286	318	341	349	254
135°	351	352	365	385	389	270
145°	404	405	406	415	419	252
155°	443	443	443	445	443	204
165°	468	466	466	469	466	132
175°	479	477	477	480	477	46
180°	479	479	479	479	479	

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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°	20.8	63.9	119.7	156.9	166.8
95°	33.3	59.7	115.2	150.3	160.8
97.5°	50.0	77.9	109.3	143.7	154.6
100°	69.6	110.4	103.3	136.7	147.5
102.5°	92.0	126.1	111.5	129.3	140.5
105°	114.4	143.6	156.8	123.3	133.5
107.5°	137.2	162.5	210.9	184.6	147.5
110°	159.9	181.8	227.8	243.3	200.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	182.7	199.9	243.8	273.4	282.1
115°	204.1	218.8	259.9	288.7	298.6
117.5°	226.1	237.0	274.6	302.6	311.4
120°	245.3	253.8	289.5	316.6	324.0
122.5°	265.9	270.5	304.5	329.5	337.2
125°	283.4	286.2	318.2	341.0	349.0
127.5°	301.9	303.6	331.7	353.9	360.5
130°	318.9	320.7	343.2	364.6	370.2
132.5°	334.2	337.0	353.9	374.2	380.6
135°	350.9	352.0	365.0	385.0	389.2
137.5°	365.1	367.0	375.0	393.7	398.2
140°	378.4	380.5	384.7	401.9	406.5
142.5°	391.5	392.5	393.6	408.4	412.5
145°	403.6	405.0	405.7	414.8	419.0
147.5°	414.2	416.0	416.7	420.6	423.1
150°	424.9	426.0	426.7	427.4	428.4
152.5°	434.5	434.9	435.2	436.6	434.9
155°	443.4	442.7	443.0	444.8	442.7
157.5°	450.5	450.5	450.2	452.3	449.4
160°	456.9	456.6	456.2	458.3	455.8
162.5°	463.0	461.9	461.5	464.0	461.9
165°	467.6	466.5	466.2	469.0	466.5
167.5°	471.5	470.1	470.1	472.9	470.1
170°	474.7	473.3	473.3	476.1	473.3
172.5°	476.8	475.0	475.4	478.2	475.0
175°	478.6	476.8	477.2	479.7	476.8
177.5°	479.3	477.5	477.9	480.7	477.2
180°	478.6	478.6	478.6	478.6	478.6

(END OF REPORT)