

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: P1012024

Luminaire Tested: S123DIP-B775D365UB50-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012024
REPORT IS A COMBINATION OF REPORTS P990393 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B775D365UB50-4F0-XX-W2A-D
Description: Define 3 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

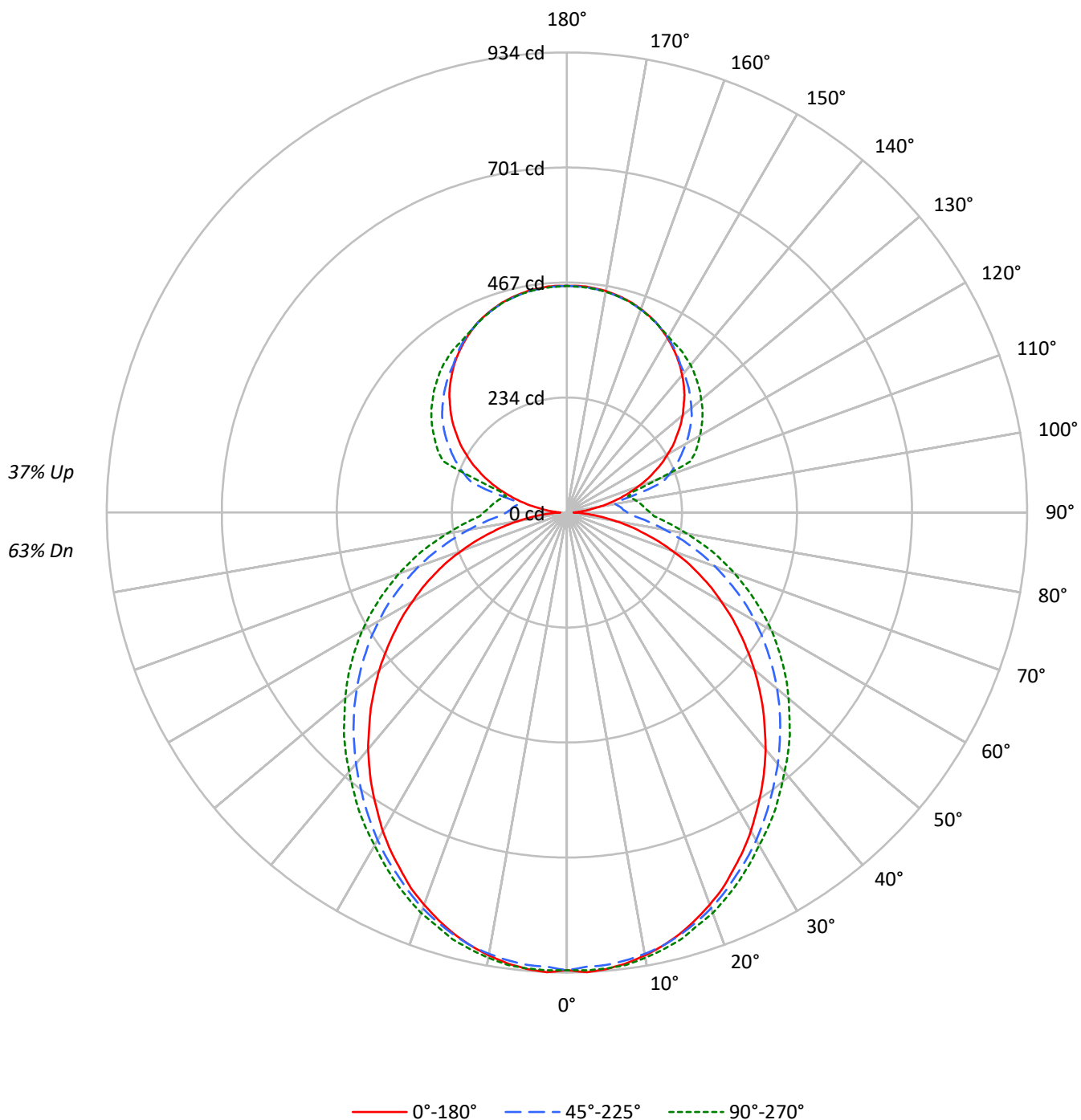
Lumens per Lamp: N/A
Luminaire Lumens: 4527.0 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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°	10002	10002	10002
5°	10030	9709	9701
10°	9936	9446	9374
15°	9804	9155	9027
20°	9618	8832	8654
25°	9388	8467	8268
30°	9152	8137	7880
35°	8889	7791	7564
40°	8637	7475	7231
45°	8358	7168	6956
50°	8082	6864	6658
55°	7777	6552	6384
60°	7478	6234	6102
65°	7170	5895	5773
70°	6708	5515	5434
75°	6121	5079	5083
80°	5440	4642	4684
85°	4764	4286	4397

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 8358 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.2	1.9
10°-20°	251.3	5.6
20°-30°	375.8	8.3
30°-40°	448.7	9.9
40°-50°	469.4	10.4
50°-60°	440.5	9.7
60°-70°	368.0	8.1
70°-80°	263.1	5.8
80°-90°	157.5	3.5
90°-100°	114.6	2.5
100°-110°	150.8	3.3
110°-120°	240.6	5.3
120°-130°	271.6	6.0
130°-140°	273.1	6.0
140°-150°	246.4	5.4
150°-160°	196.7	4.3
160°-170°	126.9	2.8
170°-180°	43.7	1.0
0°-30°	715.2	15.8
0°-40°	1163.9	25.7
0°-60°	2073.9	45.8
0°-90°	2862.4	63.2
90°-120°	506.0	11.2
90°-150°	1297.2	28.7
90°-180°	1665.0	36.8
0°-180°	4527.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	929	929	929	929	929	
5°	930	928	922	930	929	88
15°	886	889	888	898	897	250
25°	800	810	813	826	826	369
35°	688	704	718	733	737	430
45°	563	587	612	632	640	434
55°	429	463	499	526	534	384
65°	297	336	381	411	421	293
75°	161	208	259	292	305	172
85°	50	100	154	188	198	51
90°	14	67	123	158	169	11
95°	32	57	111	145	155	34
105°	110	138	151	119	128	116
115°	196	210	250	278	287	194
125°	272	275	306	328	336	244
135°	337	338	351	370	374	260
145°	388	390	390	399	403	243
155°	426	426	426	428	426	196
165°	450	449	448	451	449	127
175°	460	458	459	461	458	44
180°	460	460	460	460	460	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	929.2	929.2	929.2	929.2	929.2
2.5°	934.3	931.3	923.2	931.3	930.3
5°	930.3	928.2	922.2	930.3	929.2
7.5°	923.2	923.2	917.1	927.2	926.2
10°	913.1	915.1	910.0	920.1	918.1
12.5°	900.9	903.9	900.9	910.0	908.0
15°	885.7	888.8	887.7	897.9	896.9
17.5°	867.5	873.6	872.6	881.7	879.6
20°	847.3	853.3	855.4	864.5	865.5
22.5°	826.0	832.1	835.1	847.3	846.2
25°	799.7	809.8	812.8	826.0	826.0
27.5°	774.4	785.5	791.6	802.7	803.7
30°	747.0	760.2	768.3	780.4	780.4
32.5°	716.7	731.9	743.0	756.2	759.2
35°	688.3	704.5	717.7	732.9	736.9
37.5°	658.0	676.2	691.4	708.6	711.6
40°	627.6	645.8	666.1	683.3	687.3
42.5°	594.2	617.5	638.7	658.0	664.0
45°	562.8	587.1	612.4	631.6	639.7
47.5°	529.4	556.7	585.1	606.3	612.4
50°	497.0	525.4	556.7	580.0	587.1
52.5°	462.6	493.0	528.4	552.7	561.8
55°	429.2	462.6	499.0	526.4	534.5
57.5°	396.8	431.2	470.7	498.0	507.1
60°	362.4	398.8	440.3	468.7	479.8
62.5°	330.0	367.4	412.0	440.3	450.5
65°	296.6	336.1	380.6	411.0	421.1
67.5°	263.2	304.7	349.2	382.6	390.7
70°	227.8	271.3	319.9	352.3	362.4
72.5°	195.4	238.9	289.5	322.9	333.0
75°	160.9	208.5	259.1	292.5	304.7
77.5°	131.6	179.2	229.8	265.2	274.3
80°	100.2	149.8	202.5	236.9	247.0
82.5°	72.9	123.5	177.1	211.6	221.7
85°	49.6	100.2	153.9	188.3	198.4
87.5°	30.4	81.0	132.6	167.0	177.1
90°	13.5	66.6	122.6	158.4	169.2
92.5°	20.0	61.5	115.2	151.0	160.4
95°	32.0	57.4	110.8	144.6	154.7
97.5°	48.1	75.0	105.0	138.2	148.6
100°	66.9	106.1	99.4	131.4	141.9
102.5°	88.5	121.2	107.3	124.3	135.2
105°	110.0	138.1	150.8	118.7	128.4
107.5°	131.9	156.2	202.8	177.6	141.9
110°	153.8	174.7	219.0	234.0	193.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	175.7	192.2	234.5	262.8	271.2
115°	196.2	210.4	249.9	277.6	287.1
117.5°	217.4	227.9	264.0	291.1	299.5
120°	235.8	244.0	278.4	304.5	311.6
122.5°	255.7	260.2	292.9	316.8	324.3
125°	272.4	275.2	305.9	327.8	335.6
127.5°	290.2	292.0	319.0	340.3	346.7
130°	306.6	308.4	330.0	350.6	356.0
132.5°	321.4	324.1	340.3	359.9	366.0
135°	337.4	338.5	351.0	370.3	374.3
137.5°	351.1	352.8	360.6	378.5	383.0
140°	363.8	365.8	369.9	386.4	390.9
142.5°	376.4	377.5	378.5	392.7	396.7
145°	388.1	389.5	390.1	398.9	402.9
147.5°	398.4	400.1	400.7	404.4	406.8
150°	408.6	409.6	410.3	411.0	412.0
152.5°	417.8	418.2	418.5	419.9	418.2
155°	426.4	425.7	426.0	427.8	425.7
157.5°	433.2	433.2	432.9	434.9	432.2
160°	439.4	439.0	438.7	440.7	438.4
162.5°	445.2	444.2	443.8	446.2	444.2
165°	449.6	448.6	448.3	451.0	448.6
167.5°	453.4	452.0	452.0	454.8	452.0
170°	456.5	455.1	455.1	457.8	455.1
172.5°	458.5	456.8	457.2	459.9	456.8
175°	460.2	458.5	458.9	461.3	458.5
177.5°	460.9	459.2	459.6	462.3	458.9
180°	460.2	460.2	460.2	460.2	460.2

(END OF REPORT)