

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: P1012067

Luminaire Tested: S123DIP-B775D585UB50-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012067
REPORT IS A COMBINATION OF REPORTS P990454 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B775D585UB50-4F0-XX-W2A-D1
Description: Define 3 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

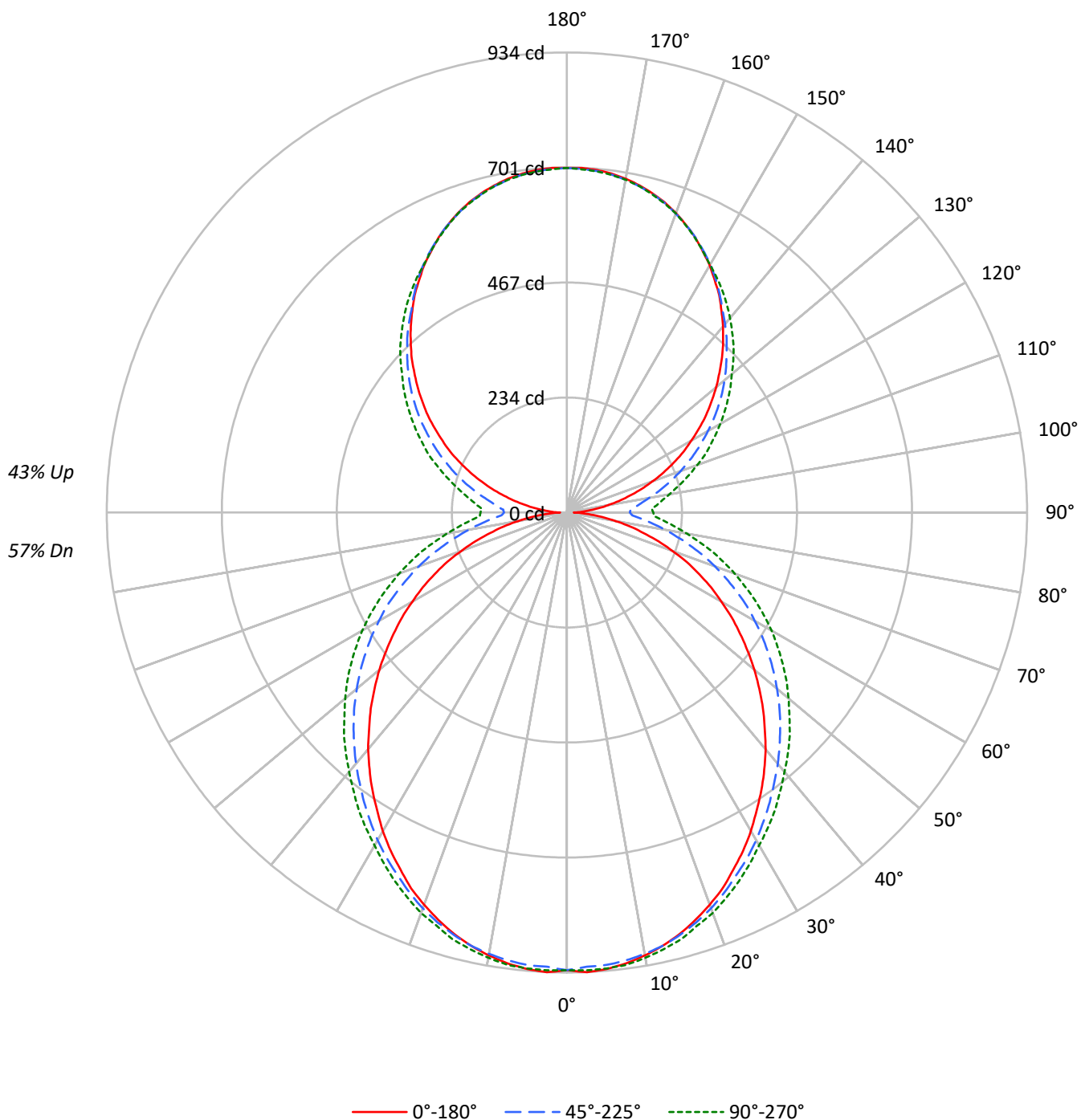
Lumens per Lamp: N/A
Luminaire Lumens: 5063.0 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 51.3
Input Voltage (V):
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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62
1	98	93	89	85	91	87	83	79	75	72	69	63	61	59	53	52	50
2	89	81	74	68	82	75	69	64	65	60	56	55	52	49	46	44	41
3	81	71	63	56	75	66	59	53	57	51	47	48	44	41	40	37	35
4	74	62	54	47	68	58	51	45	50	44	40	43	38	34	36	32	30
5	68	55	47	40	62	52	44	38	45	39	34	38	33	30	32	29	26
6	62	50	41	35	58	46	39	33	40	34	29	35	30	26	29	25	22
7	58	45	36	31	53	42	34	29	36	30	26	31	26	23	27	23	20
8	53	41	33	27	49	38	31	26	33	27	23	29	24	20	24	21	18
9	50	37	29	24	46	35	28	23	30	25	21	26	22	18	22	19	16
10	46	34	26	22	43	32	25	21	28	22	18	24	20	16	21	17	14

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	1.7
10°-20°	251.3	5.0
20°-30°	375.8	7.4
30°-40°	448.7	8.9
40°-50°	469.4	9.3
50°-60°	440.5	8.7
60°-70°	368.0	7.3
70°-80°	263.1	5.2
80°-90°	158.0	3.1
90°-100°	143.4	2.8
100°-110°	208.6	4.1
110°-120°	280.3	5.5
120°-130°	332.8	6.6
130°-140°	355.5	7.0
140°-150°	339.9	6.7
150°-160°	284.0	5.6
160°-170°	189.1	3.7
170°-180°	66.2	1.3
0°-30°	715.2	14.1
0°-40°	1163.9	23.0
0°-60°	2073.9	41.0
0°-90°	2863.0	56.5
90°-120°	632.4	12.5
90°-150°	1660.7	32.8
90°-180°	2200.0	43.5
0°-180°	5063.0	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	69	128	164	175	12
95°	44	87	141	174	185	44
105°	132	157	206	234	244	141
115°	239	252	288	313	320	236
125°	345	346	375	394	399	308
135°	446	448	458	474	478	343
145°	539	539	541	548	550	336
155°	616	616	617	619	615	284
165°	671	669	669	673	669	189
175°	698	696	696	699	695	66
180°	700	700	700	700	700	

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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°	13.7	68.8	127.6	164.2	175.4
92.5°	28.6	75.5	129.4	164.4	172.4
95°	43.5	86.9	140.9	174.5	184.6
97.5°	63.4	102.7	153.5	186.6	196.2
100°	83.8	119.5	168.9	199.8	211.0
102.5°	107.6	137.5	187.0	216.9	226.6
105°	131.8	157.2	205.6	234.0	244.2
107.5°	159.3	181.1	224.8	253.8	262.4
110°	184.7	204.0	245.6	274.1	281.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	212.2	226.8	265.3	293.4	302.5
115°	238.7	252.4	287.7	312.6	320.1
117.5°	266.7	275.4	308.7	333.0	339.4
120°	291.4	299.8	330.5	353.2	359.2
122.5°	318.4	322.7	353.0	373.5	379.0
125°	344.8	346.5	374.8	393.8	398.7
127.5°	370.1	372.4	396.6	413.6	418.5
130°	395.4	398.8	417.5	434.5	436.7
132.5°	419.7	424.1	438.2	453.6	458.0
135°	445.5	447.8	458.4	474.5	478.4
137.5°	469.1	470.9	479.6	493.1	496.5
140°	492.9	495.6	499.2	513.8	515.1
142.5°	515.4	517.2	518.3	530.9	533.2
145°	539.0	539.1	540.8	548.3	550.1
147.5°	558.4	560.6	562.2	565.2	566.0
150°	579.8	580.9	582.0	582.0	580.7
152.5°	597.4	599.0	599.6	600.7	597.9
155°	616.1	616.1	616.6	618.8	615.0
157.5°	632.0	631.5	632.0	634.2	630.9
160°	646.9	645.8	645.8	648.5	646.3
162.5°	660.1	658.4	659.0	661.7	657.9
165°	671.0	669.4	669.4	672.7	668.8
167.5°	680.4	678.2	678.7	682.0	678.7
170°	688.1	685.9	685.9	689.7	685.9
172.5°	694.1	691.9	691.9	695.2	691.4
175°	698.0	695.8	695.8	699.1	695.2
177.5°	700.2	698.0	698.0	701.3	697.4
180°	699.6	699.6	699.6	699.6	699.6

(END OF REPORT)