

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: P1012108

Luminaire Tested: S123DIP-B775D805UB50-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012108
REPORT IS A COMBINATION OF REPORTS P990513 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B775D805UB50-4F0-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

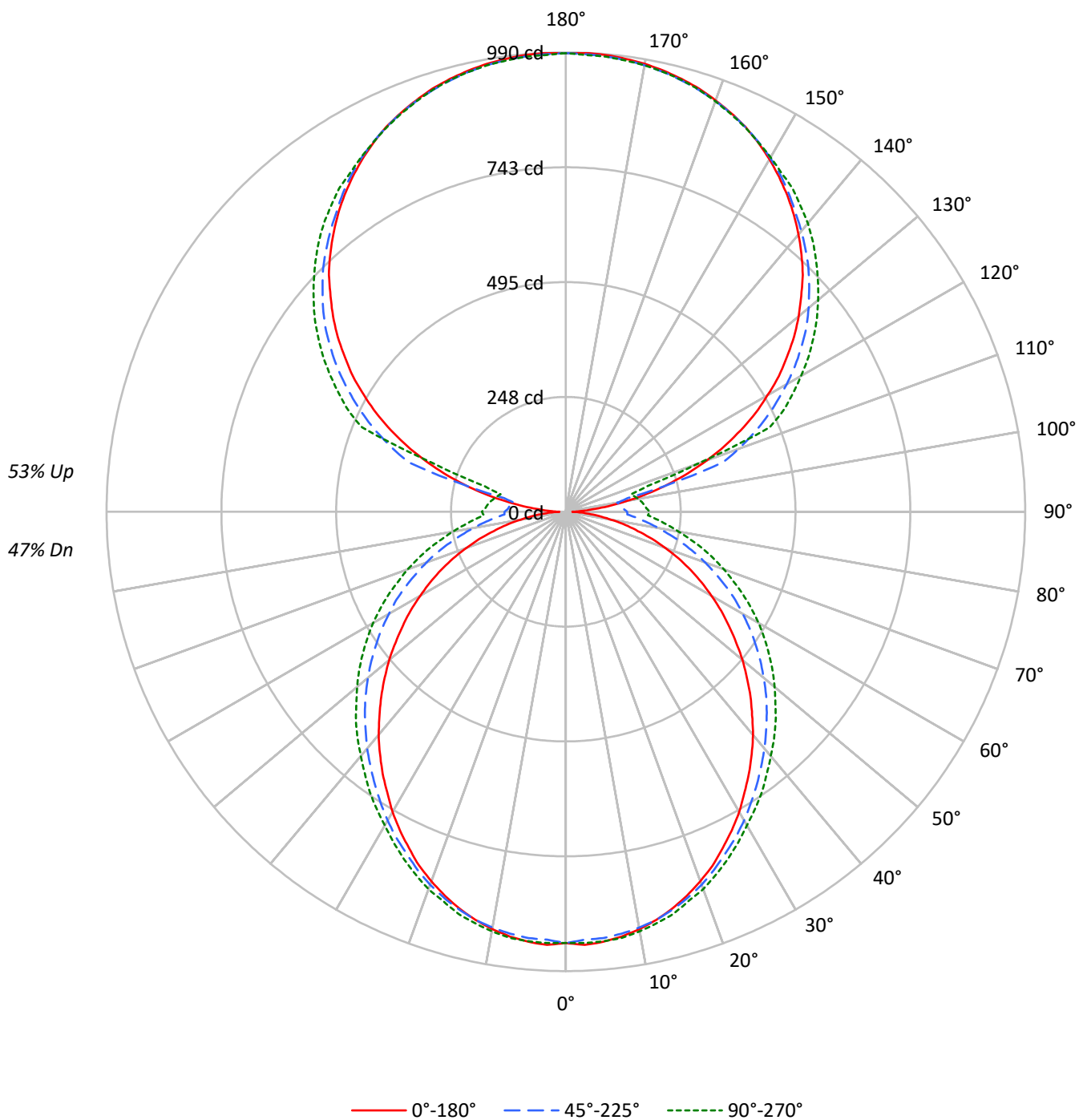
Lumens per Lamp: N/A
Luminaire Lumens: 6138.0 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 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

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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	106	106	106	106	98	98	98	98	81	81	81	67	67	67	53	53	53
1	96	91	87	83	88	84	80	77	70	67	65	57	55	53	45	44	43
2	87	79	73	67	80	73	67	62	61	57	53	50	47	44	39	37	35
3	79	69	62	55	72	64	57	52	53	48	44	44	40	37	35	32	30
4	72	61	53	47	66	56	49	43	47	42	37	39	34	31	31	28	25
5	66	54	46	40	60	50	43	37	42	36	32	35	30	27	28	24	22
6	61	49	40	34	56	45	37	32	38	32	28	31	27	23	25	22	19
7	56	44	36	30	51	40	33	28	34	28	24	28	24	21	23	19	17
8	52	40	32	26	48	37	30	25	31	25	21	26	21	18	21	18	15
9	49	36	29	23	44	33	27	22	28	23	19	24	19	16	19	16	14
10	45	33	26	21	42	31	24	20	26	21	17	22	18	15	18	15	12

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	1.4
10°-20°	251.3	4.1
20°-30°	375.8	6.1
30°-40°	448.7	7.3
40°-50°	469.4	7.6
50°-60°	440.5	7.2
60°-70°	368.0	6.0
70°-80°	263.1	4.3
80°-90°	158.5	2.6
90°-100°	133.2	2.2
100°-110°	240.8	3.9
110°-120°	461.2	7.5
120°-130°	551.7	9.0
130°-140°	572.3	9.3
140°-150°	526.2	8.6
150°-160°	422.4	6.9
160°-170°	272.6	4.4
170°-180°	93.9	1.5
0°-30°	715.2	11.7
0°-40°	1163.9	19.0
0°-60°	2073.9	33.8
0°-90°	2863.5	46.7
90°-120°	835.3	13.6
90°-150°	2485.6	40.5
90°-180°	3274.0	53.3
0°-180°	6138.0	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	71	132	169	181	12
95°	56	65	123	160	170	62
105°	227	259	237	135	146	240
115°	416	432	475	507	518	411
125°	582	588	620	642	651	520
135°	722	726	740	760	763	556
145°	832	836	838	847	851	521
155°	916	914	915	919	914	422
165°	966	963	963	968	963	273
175°	988	985	985	990	985	94
180°	988	988	988	988	988	

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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°	13.9	70.9	132.0	169.4	180.9
92.5°	29.0	68.2	125.4	163.9	173.8
95°	55.9	65.3	123.0	159.5	169.6
97.5°	91.6	107.5	117.6	153.9	164.7
100°	133.2	180.3	112.3	147.5	158.3
102.5°	180.7	218.5	136.3	140.4	152.1
105°	226.9	259.3	236.7	135.1	145.7
107.5°	275.1	302.9	355.4	269.8	182.7
110°	323.3	347.4	396.0	398.0	301.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	370.3	389.5	436.1	468.0	475.7
115°	415.6	432.1	475.1	506.7	517.8
117.5°	461.1	474.3	512.4	542.6	551.4
120°	501.8	513.5	549.2	578.3	585.4
122.5°	544.4	551.7	586.0	611.9	619.7
125°	581.6	587.5	619.8	642.5	651.1
127.5°	619.8	624.7	653.6	676.1	681.8
130°	655.0	659.9	683.1	705.3	709.9
132.5°	687.8	693.7	711.1	732.2	737.1
135°	722.3	725.7	739.8	760.3	763.1
137.5°	751.7	756.6	765.1	785.0	788.6
140°	780.1	784.5	789.7	807.8	811.4
142.5°	807.2	810.6	812.8	828.2	831.0
145°	832.2	836.3	837.8	847.4	851.4
147.5°	855.4	859.1	860.6	865.0	865.5
150°	877.5	879.7	881.1	882.6	882.4
152.5°	897.3	898.0	898.8	901.7	898.0
155°	915.6	914.2	914.9	918.6	914.2
157.5°	930.3	930.3	929.6	934.0	928.1
160°	943.5	942.8	942.1	946.5	941.3
162.5°	956.0	953.8	953.1	958.2	953.8
165°	965.6	963.4	962.6	968.5	963.4
167.5°	973.7	970.7	970.7	976.6	970.7
170°	980.3	977.3	977.3	983.2	977.3
172.5°	984.7	981.0	981.7	987.6	981.0
175°	988.3	984.7	985.4	990.5	984.7
177.5°	989.8	986.1	986.9	992.7	985.4
180°	988.3	988.3	988.3	988.3	988.3

(END OF REPORT)