

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: P1012068

Luminaire Tested: S123DIP-B775D585UB50-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012068
REPORT IS A COMBINATION OF REPORTS P990455 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-D4
Description: Define 3 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

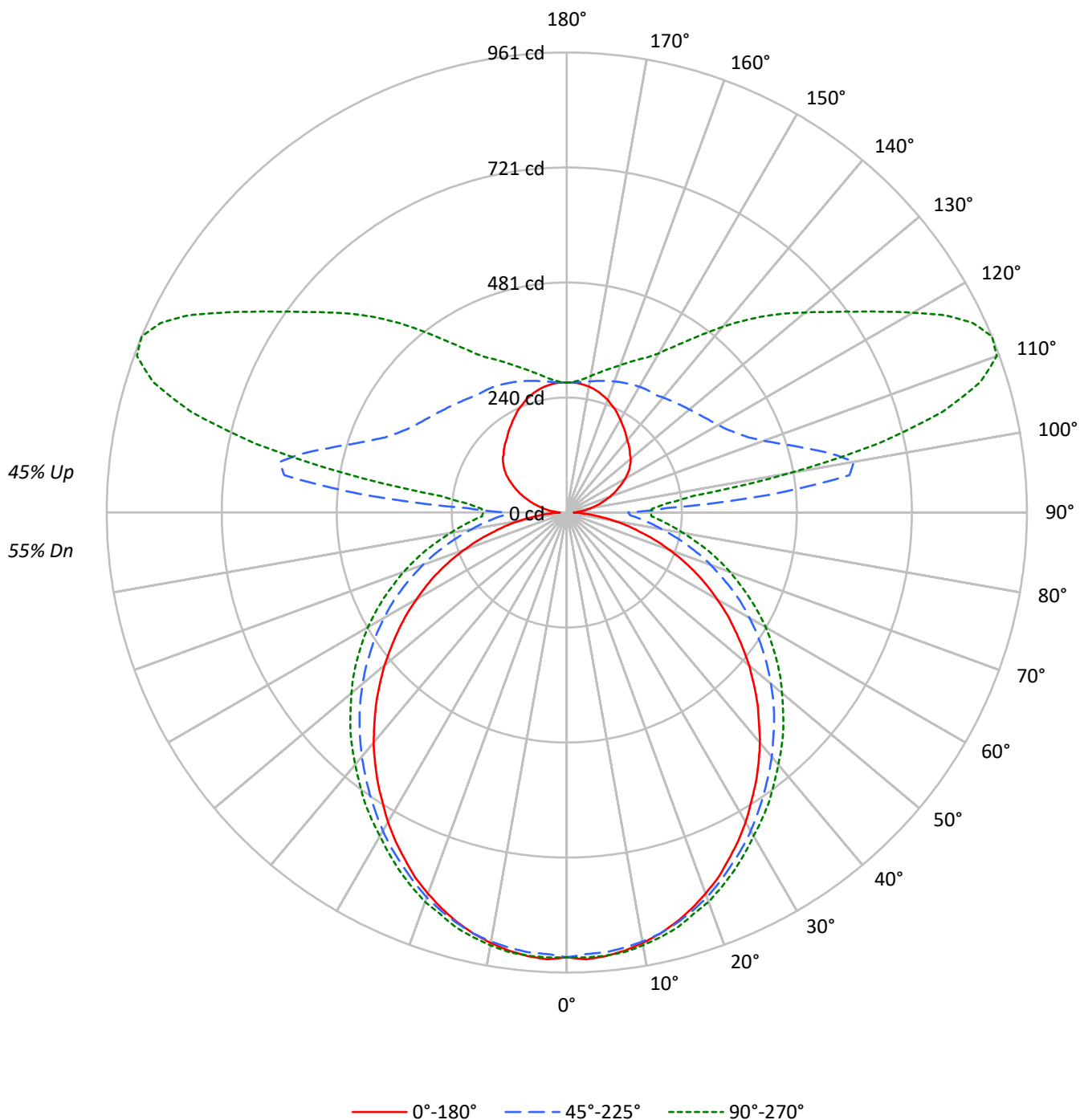
Lumens per Lamp: N/A
Luminaire Lumens: 5171.7 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61
1	98	93	89	85	91	86	83	79	74	71	68	63	61	59	52	51	49
2	89	81	74	68	82	75	69	64	64	60	56	54	51	48	45	43	41
3	81	70	63	56	74	65	59	53	56	51	46	48	44	40	40	37	34
4	74	62	54	47	68	58	50	45	50	44	39	42	38	34	35	32	29
5	67	55	47	40	62	51	44	38	44	38	34	38	33	29	32	28	25
6	62	49	41	35	57	46	39	33	40	34	29	34	29	26	29	25	22
7	57	45	36	31	53	42	34	29	36	30	26	31	26	23	26	22	19
8	53	40	32	27	49	38	31	26	33	27	23	28	24	20	24	20	17
9	50	37	29	24	46	35	28	23	30	24	20	26	21	18	22	18	16
10	46	34	26	21	43	32	25	20	28	22	18	24	19	16	20	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	4.9
20°-30°	375.8	7.3
30°-40°	448.7	8.7
40°-50°	469.4	9.1
50°-60°	440.5	8.5
60°-70°	368.0	7.1
70°-80°	263.1	5.1
80°-90°	158.1	3.1
90°-100°	252.7	4.9
100°-110°	503.6	9.7
110°-120°	468.8	9.1
120°-130°	362.4	7.0
130°-140°	276.7	5.3
140°-150°	199.8	3.9
150°-160°	137.6	2.7
160°-170°	80.8	1.6
170°-180°	26.3	0.5
0°-30°	715.2	13.8
0°-40°	1163.9	22.5
0°-60°	2073.9	40.1
0°-90°	2863.0	55.4
90°-120°	1225.1	23.7
90°-150°	2064.0	39.9
90°-180°	2309.0	44.6
0°-180°	5171.7	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	11
95°	30	111	426	227	206	28
105°	72	127	518	877	813	76
115°	118	158	392	819	936	117
125°	160	188	348	625	731	142
135°	186	220	323	501	579	143
145°	210	240	307	394	437	132
155°	238	257	297	338	352	109
165°	260	267	285	302	307	73
175°	271	271	273	277	276	26
180°	272	272	272	272	272	

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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°	14.3	69.4	128.1	164.2	174.8
92.5°	20.3	88.6	208.5	174.6	177.9
95°	29.8	111.4	426.1	226.7	205.5
97.5°	39.8	116.1	595.4	363.6	265.4
100°	49.8	118.2	608.6	617.6	472.1
102.5°	60.3	121.3	566.8	780.0	666.3
105°	71.9	126.6	517.8	877.2	812.6
107.5°	83.0	133.6	473.8	915.4	905.5
110°	95.1	140.8	437.5	910.6	955.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	107.2	148.6	410.5	872.5	961.0
115°	117.8	157.6	391.6	819.2	936.3
117.5°	129.3	165.2	376.3	762.6	891.8
120°	140.3	172.6	365.2	708.6	834.2
122.5°	150.8	180.6	356.3	664.9	780.8
125°	159.7	188.0	347.9	625.3	731.3
127.5°	167.3	196.9	341.2	591.8	687.9
130°	174.5	205.6	334.5	560.4	650.0
132.5°	179.0	213.6	328.9	530.6	614.7
135°	185.6	220.0	323.2	501.2	579.0
137.5°	191.6	226.1	318.1	472.0	542.8
140°	196.7	231.6	313.5	444.4	505.8
142.5°	203.3	235.6	308.4	417.7	470.0
145°	210.4	239.9	307.3	394.2	437.0
147.5°	216.6	244.6	305.6	374.8	408.9
150°	223.7	248.4	303.4	359.2	384.0
152.5°	230.9	252.6	300.7	348.2	365.5
155°	238.0	256.6	297.4	338.0	352.3
157.5°	243.5	260.2	294.6	328.2	339.7
160°	250.1	263.2	291.3	319.1	327.6
162.5°	255.0	265.5	288.0	310.5	316.6
165°	260.0	267.4	284.7	302.0	307.3
167.5°	263.8	269.0	281.4	294.6	297.9
170°	267.1	269.8	278.1	288.0	289.7
172.5°	269.3	270.7	275.4	282.2	282.0
175°	271.0	271.2	273.2	277.0	276.5
177.5°	272.1	271.5	271.5	273.7	272.6
180°	271.5	271.5	271.5	271.5	271.5

(END OF REPORT)