

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P843236

Luminaire Tested: **LD4C08DE010B2750 EU4C08B30 4LBSQLI**

Issue Date: 5/7/2024

Test Information

Test Method: LM-79-08
Report Number: P843236
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P209151)
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C08DE010B2750 EU4C08B30 4LBSQLI
Description: 4in Downlight with BioUp LEDs
Light Source: -
Ballast/Driver:

Summary

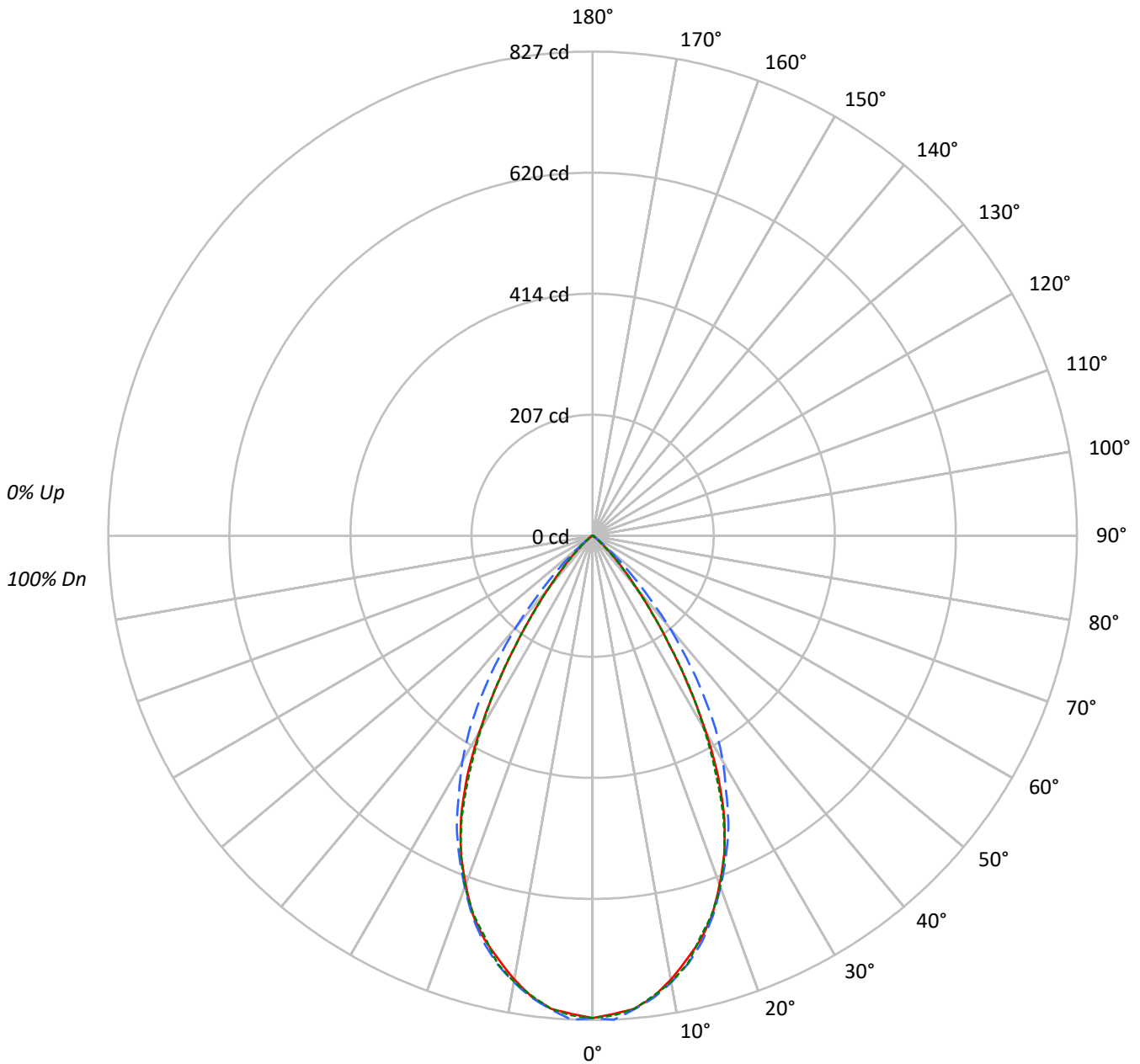
Lumens per Lamp: N/A
Luminaire Lumens: 760.4 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.9 / 0.94
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.6
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: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93																			
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	87																			
3	102	96	91	87	100	94	90	86	92	88	84	89	86	83	87	84	82	80																			
4	97	89	84	79	95	88	83	79	86	81	78	84	80	77	82	79	76	75																			
5	92	83	77	73	90	82	77	73	81	76	72	79	75	71	77	74	71	69																			
6	87	78	72	68	86	77	71	67	76	71	67	74	70	66	73	69	66	64																			
7	83	73	67	63	81	73	67	63	71	66	62	70	65	62	69	65	62	60																			
8	79	69	63	59	77	68	62	58	67	62	58	66	61	58	65	61	58	56																			
9	75	65	59	55	74	64	59	55	63	58	55	63	58	54	62	57	54	53																			
10	71	61	55	51	70	61	55	51	60	55	51	59	54	51	58	54	51	50																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	79478	79478	79478
5°	78561	78668	78561
10°	75413	75883	75776
15°	71303	71823	70934
20°	65069	65552	65398
25°	56660	58438	56266
30°	43084	49558	42449
35°	27116	38518	27375
40°	14624	25443	14372
45°	6932	12568	6850
50°	2582	4713	2582
55°	1228	1497	1144
60°	811	714	811
65°	479	479	479
70°	310	451	310
75°	186	186	186
80°	278	278	278
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.4	10.0
10°-20°	200.1	26.3
20°-30°	244.5	32.2
30°-40°	171.0	22.5
40°-50°	56.0	7.4
50°-60°	8.9	1.2
60°-70°	2.5	0.3
70°-80°	0.8	0.1
80°-90°	0.2	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	521.0	68.5
0°-40°	692.0	91.0
0°-60°	757.0	99.5
0°-90°	760.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	760.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	824	824	824	824	824	
5°	811	811	812	807	811	76
15°	714	717	719	714	710	199
25°	532	540	549	539	528	239
35°	230	272	327	268	232	147
45°	51	62	92	62	50	43
55°	7	8	9	8	7	7
65°	2	3	2	3	2	2
75°	0	0	0	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	823.7	823.7	823.7	823.7	823.7	823.7	823.7	823.7	823.7	823.7	823.7
2.5°	817.4	823.2	821.6	825.3	825.3	821.0	822.1	823.7	825.8	827.4	814.8
5°	811.1	816.4	811.6	816.8	813.7	809.0	816.8	812.7	815.3	812.2	814.3
7.5°	794.4	802.7	793.3	799.6	797.6	794.9	798.0	797.0	798.5	796.0	790.2
10°	769.7	776.6	770.3	779.2	775.0	772.4	775.0	777.7	777.1	774.5	777.7
12.5°	741.5	749.3	746.3	751.4	746.8	746.8	753.0	751.4	752.0	749.9	753.6
15°	713.8	719.5	714.9	721.6	719.5	713.8	716.3	716.3	720.6	719.0	714.9
17.5°	679.2	684.0	678.7	680.3	678.2	677.2	688.1	680.8	685.0	681.9	682.4
20°	633.7	635.8	634.3	638.4	635.8	638.9	637.9	636.9	636.9	638.4	634.8
22.5°	587.6	587.6	589.2	590.3	592.4	589.2	595.6	590.3	590.8	594.5	593.4
25°	532.2	530.6	534.3	539.5	541.6	539.0	547.3	543.2	546.3	548.9	543.2
27.5°	464.7	464.7	468.3	477.2	478.8	482.0	493.5	493.5	497.6	494.0	498.1
30°	386.7	392.5	397.1	408.7	412.4	419.1	431.2	436.9	446.4	444.8	442.7
32.5°	306.6	314.5	315.1	327.0	337.0	348.5	364.8	378.3	385.2	389.8	384.7
35°	230.2	235.0	239.1	247.5	264.3	279.4	294.1	311.9	324.0	327.0	322.4
37.5°	168.5	169.5	173.8	181.6	194.2	208.8	226.5	245.9	258.5	263.2	258.0
40°	116.1	117.2	119.3	126.1	136.5	147.0	161.2	181.1	192.6	202.0	195.1
42.5°	77.9	79.0	81.1	86.3	92.1	102.1	113.1	125.5	136.5	140.8	137.1
45°	50.8	50.8	51.8	55.5	58.6	66.4	74.4	82.2	89.5	92.1	89.5
47.5°	29.8	30.4	31.4	34.1	37.7	40.8	46.5	51.8	53.9	55.9	55.0
50°	17.2	17.2	18.8	20.4	23.1	25.1	27.2	29.3	30.4	31.4	30.4
52.5°	9.4	9.9	10.5	11.0	12.1	14.2	15.7	15.7	16.2	16.7	16.2
55°	7.3	7.3	7.3	7.3	7.8	7.8	7.8	8.4	8.4	8.9	8.4
57.5°	5.2	5.2	5.2	5.8	5.8	5.8	5.2	5.2	5.2	5.2	5.2
60°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	3.7	3.7	3.7	3.7
62.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
65°	2.1	2.1	2.6	2.6	2.6	2.6	2.6	2.1	2.1	2.1	2.1
67.5°	1.6	1.6	1.6	1.6	2.1	2.1	1.6	1.6	1.6	1.6	1.6
70°	1.1	1.1	1.1	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
72.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
77.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	823.7	823.7	823.7	823.7	823.7	823.7	823.7	823.7
2.5°	823.7	814.8	815.9	820.5	817.9	820.5	820.0	820.0
5°	814.8	812.2	807.9	806.4	809.5	816.4	815.3	811.1
7.5°	798.0	791.2	796.0	798.0	795.4	799.6	801.7	792.8
10°	778.1	775.6	774.5	775.6	774.5	778.6	773.4	773.4
12.5°	749.9	745.7	745.7	752.0	748.3	745.2	749.3	748.8
15°	721.6	713.3	713.3	715.4	717.0	714.9	715.4	710.1
17.5°	679.7	677.2	673.5	679.2	680.8	678.7	680.3	677.6
20°	640.5	640.5	633.7	636.4	638.4	640.0	641.0	636.9
22.5°	590.3	591.3	586.6	591.9	593.4	588.2	589.2	588.2
25°	544.3	543.7	540.0	537.9	539.0	536.9	536.4	528.5
27.5°	493.5	488.2	480.4	482.5	473.6	466.3	466.3	454.3
30°	438.5	429.6	419.1	408.7	400.8	392.5	387.7	381.0
32.5°	374.2	362.1	349.0	335.0	326.1	313.5	306.6	310.3
35°	310.3	292.5	274.8	260.6	247.0	239.7	231.3	232.4
37.5°	248.5	223.5	207.7	192.6	181.1	171.7	168.0	166.9
40°	181.6	161.7	146.0	135.0	127.1	119.8	115.7	114.1
42.5°	125.5	111.5	98.9	90.0	84.8	80.1	77.9	77.4
45°	81.6	73.3	64.9	58.6	54.5	51.3	50.8	50.2
47.5°	51.3	47.1	41.9	37.1	33.5	31.4	29.8	29.8
50°	29.3	27.7	25.1	22.5	20.4	19.4	17.8	17.2
52.5°	15.7	15.7	14.7	12.6	11.0	9.9	9.9	9.4
55°	8.4	8.4	7.8	7.8	7.3	7.3	7.3	6.8
57.5°	5.2	5.2	5.8	5.8	5.2	5.2	5.2	5.2
60°	3.7	4.2	4.2	4.2	4.2	4.2	4.2	4.2
62.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
65°	2.1	2.6	2.6	2.6	2.6	2.1	2.1	2.1
67.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
70°	1.6	1.6	1.6	1.6	1.6	1.1	1.1	1.1
72.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
77.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°









(END OF REPORT)