

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: P843250

Luminaire Tested: **LD4C08DE010B2750 EU4C08B35 4LBSQLI**

Issue Date: 5/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P843250  
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 EU4C08B35 4LBSQLI  
Description: 4in Downlight with BioUp LEDs  
Light Source: -  
Ballast/Driver:

**Summary**

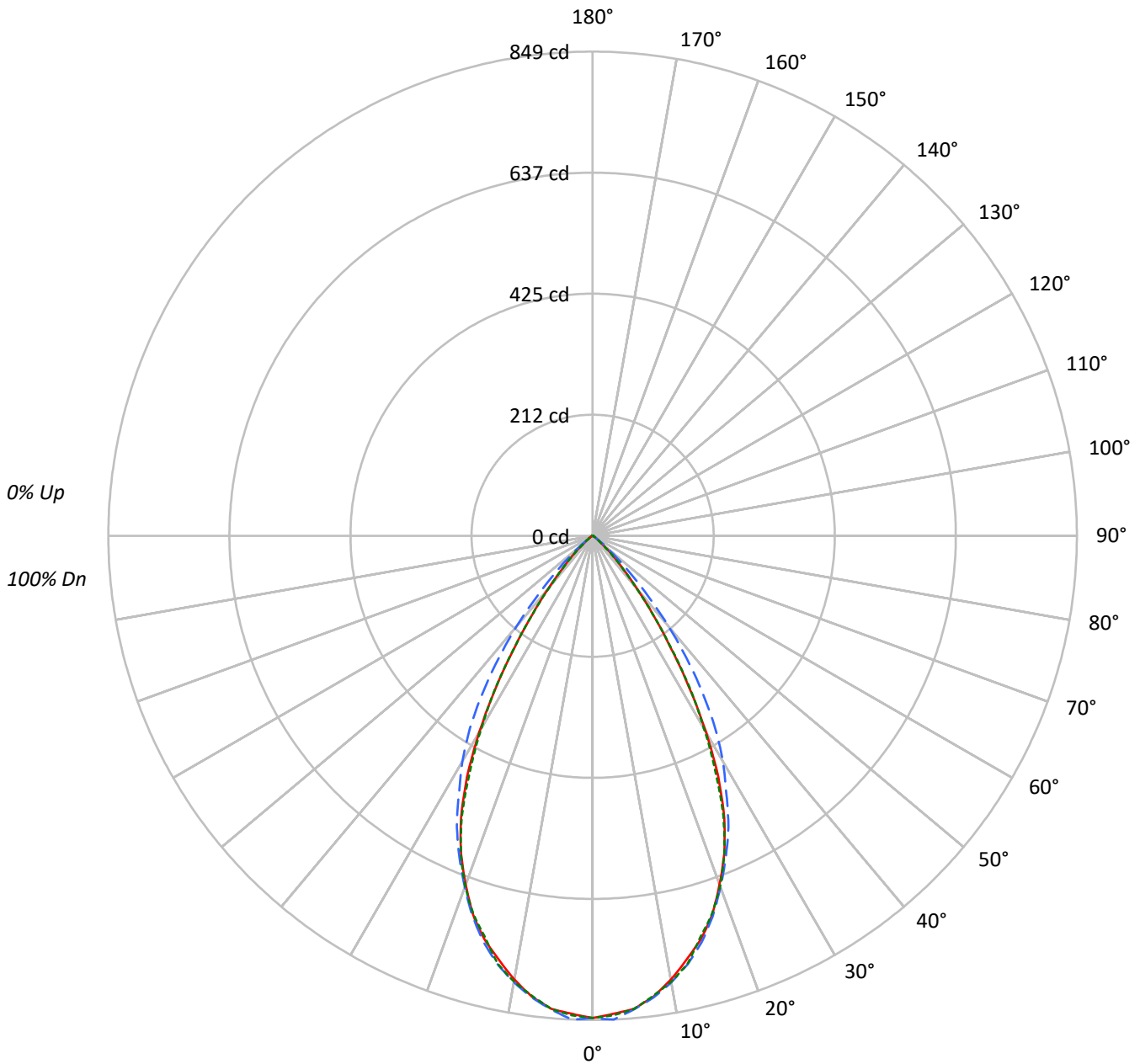
Lumens per Lamp: N/A  
Luminaire Lumens: 780.5 lumens  
Efficiency: N/A  
Efficacy: 81.3 lumens/watt  
Spacing Criteria (0/90/45): 0.91 / 0.9 / 0.94  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

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	72	67	76	71	67	74	70	66	73	69	66	65																			
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°	81581	81581	81581
5°	80644	80740	80644
10°	77422	77882	77784
15°	73181	73721	72812
20°	66784	67287	67123
25°	58161	59982	57757
30°	44221	50872	43564
35°	27846	39543	28093
40°	15014	26111	14750
45°	7109	12909	7027
50°	2672	4849	2672
55°	1262	1531	1178
60°	830	733	830
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°	78.4	10.0
10°-20°	205.4	26.3
20°-30°	251.0	32.2
30°-40°	175.5	22.5
40°-50°	57.5	7.4
50°-60°	9.1	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°	534.8	68.5
0°-40°	710.3	91.0
0°-60°	777.0	99.6
0°-90°	780.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	780.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	846	846	846	846	846	
5°	833	833	834	828	833	78
15°	733	736	738	733	729	204
25°	546	555	563	553	542	245
35°	236	279	336	275	238	151
45°	52	64	95	63	52	44
55°	8	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°	845.5	845.5	845.5	845.5	845.5	845.5	845.5	845.5	845.5	845.5	845.5
2.5°	839.0	844.9	843.3	847.1	847.1	842.7	843.9	845.5	847.6	849.2	836.3
5°	832.6	838.0	833.1	838.5	835.2	830.5	838.5	834.2	836.8	833.6	835.7
7.5°	815.3	824.0	814.3	820.7	818.6	815.9	819.1	818.1	819.7	816.9	811.1
10°	790.2	797.1	790.7	799.8	795.4	792.8	795.4	798.2	797.7	794.9	798.2
12.5°	761.1	769.1	765.9	771.3	766.5	766.5	772.9	771.3	771.9	769.7	773.4
15°	732.6	738.5	733.7	740.7	738.5	732.6	735.3	735.3	739.6	738.0	733.7
17.5°	697.2	702.1	696.7	698.2	696.1	695.1	706.3	698.8	703.1	699.8	700.5
20°	650.4	652.7	651.0	655.3	652.7	655.8	654.8	653.7	653.7	655.3	651.5
22.5°	603.2	603.2	604.9	605.9	608.0	604.9	611.2	605.9	606.4	610.1	609.1
25°	546.3	544.7	548.4	553.8	555.9	553.2	561.8	557.6	560.8	563.4	557.6
27.5°	477.0	477.0	480.7	489.9	491.5	494.7	506.5	506.5	510.8	507.0	511.4
30°	396.9	402.9	407.7	419.5	423.3	430.2	442.6	448.5	458.2	456.6	454.4
32.5°	314.8	322.8	323.3	335.7	346.0	357.7	374.4	388.4	395.3	400.1	394.8
35°	236.4	241.1	245.5	254.0	271.3	286.8	301.8	320.1	332.5	335.7	330.8
37.5°	172.9	174.1	178.3	186.4	199.3	214.3	232.6	252.5	265.4	270.2	264.8
40°	119.2	120.4	122.5	129.5	140.2	150.9	165.4	185.8	197.7	207.3	200.3
42.5°	80.1	81.1	83.2	88.6	94.6	104.7	116.0	128.9	140.2	144.5	140.8
45°	52.1	52.1	53.2	56.9	60.2	68.2	76.3	84.3	91.8	94.6	91.8
47.5°	30.7	31.1	32.3	34.9	38.7	41.9	47.8	53.2	55.3	57.4	56.4
50°	17.8	17.8	19.4	20.9	23.6	25.8	27.9	30.0	31.1	32.3	31.1
52.5°	9.6	10.3	10.8	11.3	12.4	14.5	16.1	16.1	16.7	17.1	16.7
55°	7.5	7.5	7.5	7.5	8.0	8.0	8.0	8.6	8.6	9.1	8.6
57.5°	5.4	5.4	5.4	5.9	5.9	5.9	5.4	5.4	5.4	5.4	5.4
60°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	3.8	3.8	3.8	3.8
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°	845.5	845.5	845.5	845.5	845.5	845.5	845.5	845.5
2.5°	845.5	836.3	837.3	842.2	839.5	842.2	841.7	841.7
5°	836.3	833.6	829.3	827.7	830.9	838.0	836.8	832.6
7.5°	819.1	812.2	816.9	819.1	816.5	820.7	822.8	813.7
10°	798.7	796.1	794.9	796.1	794.9	799.3	793.9	793.9
12.5°	769.7	765.4	765.4	771.9	768.1	764.9	769.1	768.6
15°	740.7	732.1	732.1	734.2	735.9	733.7	734.2	728.9
17.5°	697.7	695.1	691.3	697.2	698.8	696.7	698.2	695.6
20°	657.4	657.4	650.4	653.2	655.3	656.9	658.0	653.7
22.5°	605.9	607.0	602.1	607.5	609.1	603.7	604.9	603.7
25°	558.6	558.1	554.3	552.2	553.2	551.1	550.6	542.5
27.5°	506.5	501.1	493.1	495.3	486.1	478.6	478.6	466.2
30°	450.1	441.0	430.2	419.5	411.4	402.9	398.0	391.0
32.5°	384.0	371.7	358.2	343.7	334.6	321.7	314.8	318.6
35°	318.6	300.3	282.0	267.5	253.5	246.0	237.4	238.5
37.5°	255.1	229.4	213.2	197.7	185.8	176.2	172.4	171.3
40°	186.4	165.9	149.9	138.6	130.5	123.0	118.7	117.1
42.5°	128.9	114.4	101.5	92.4	87.0	82.2	80.1	79.5
45°	83.8	75.2	66.6	60.2	55.8	52.7	52.1	51.5
47.5°	52.7	48.3	42.9	38.2	34.4	32.3	30.7	30.7
50°	30.0	28.5	25.8	23.1	20.9	19.9	18.3	17.8
52.5°	16.1	16.1	15.0	12.9	11.3	10.3	10.3	9.6
55°	8.6	8.6	8.0	8.0	7.5	7.5	7.5	7.0
57.5°	5.4	5.4	5.9	5.9	5.4	5.4	5.4	5.4
60°	3.8	4.3	4.3	4.3	4.3	4.3	4.3	4.3
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)