

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: P857883

Luminaire Tested: **LD4C40D010 EU4409027 4LBMDSWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857883
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-3)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C40D010 EU4409027 4LBMDSWH
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

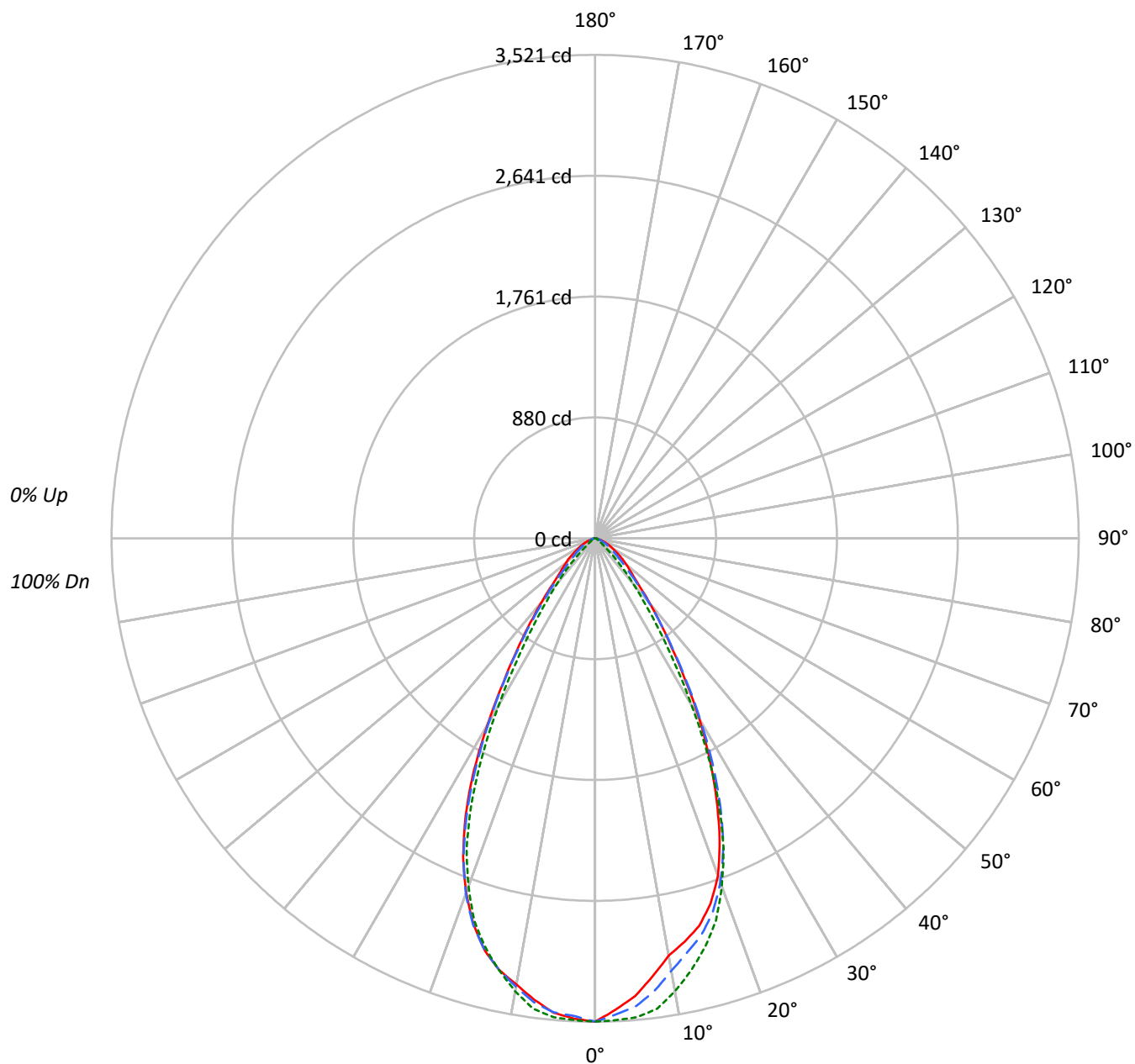
Lumens per Lamp: N/A
Luminaire Lumens: 3205.0 lumens
Efficiency: N/A
Efficacy: 68.2 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 47
Input Voltage (V): NR
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					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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92		
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85		
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78		
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72		
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67		
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62		
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58		
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55		
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51		
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	432518	432518	432518
5°	412724	431827	427807
10°	384937	417833	411721
15°	371705	392462	395222
20°	341919	352587	358980
25°	283389	288553	302556
30°	215583	199383	221754
35°	145972	119471	147592
40°	99416	68448	96353
45°	68958	34488	65188
50°	56115	14029	52483
55°	45429	8739	41338
60°	36070	6683	32728
65°	28459	5523	25291
70°	21480	4885	19540
75°	15474	3892	14193
80°	11532	3820	9622
85°	7612	3806	7612



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.7	10.1
10°-20°	850.5	26.5
20°-30°	975.8	30.4
30°-40°	592.8	18.5
40°-50°	254.1	7.9
50°-60°	121.9	3.8
60°-70°	59.3	1.8
70°-80°	22.0	0.7
80°-90°	5.1	0.2
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°	2150.0	67.1
0°-40°	2742.8	85.6
0°-60°	3118.7	97.3
0°-90°	3205.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3205.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3521	3521	3521	3521	3521	
5°	3347	3420	3502	3466	3469	311
15°	2922	2990	3086	3105	3107	814
25°	2091	2159	2129	2210	2232	948
35°	973	987	797	962	984	624
45°	397	353	198	318	375	322
55°	212	158	41	141	193	191
65°	98	65	19	60	87	99
75°	33	22	8	19	30	36
85°	5	5	3	3	5	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	3520.6	3520.6	3520.6	3520.6	3520.6	3520.6	3520.6	3520.6	3520.6
2.5°	3436.4	3474.4	3471.7	3504.3	3512.5	3504.3	3482.6	3504.3	3501.6
5°	3346.7	3390.2	3420.1	3474.4	3501.6	3496.2	3466.3	3471.7	3469.0
7.5°	3216.2	3270.5	3322.2	3403.7	3455.4	3452.7	3409.2	3401.0	3390.2
10°	3085.7	3137.3	3197.1	3281.4	3349.4	3360.2	3316.7	3305.9	3300.4
12.5°	3009.5	3050.3	3091.1	3164.5	3224.3	3246.1	3221.6	3224.3	3221.6
15°	2922.5	2963.3	2990.5	3044.9	3085.7	3115.6	3104.7	3121.0	3107.4
17.5°	2792.0	2841.0	2851.9	2892.6	2922.5	2941.6	2952.4	2968.8	2947.0
20°	2615.3	2653.4	2667.0	2683.3	2696.9	2721.4	2754.0	2770.3	2745.8
22.5°	2367.9	2441.3	2438.6	2430.5	2444.1	2452.2	2503.9	2531.1	2512.0
25°	2090.6	2166.8	2158.6	2126.0	2128.7	2145.0	2210.3	2245.6	2232.0
27.5°	1799.7	1870.4	1851.4	1788.9	1772.6	1797.0	1881.3	1922.1	1913.9
30°	1519.7	1565.9	1536.0	1424.6	1405.5	1435.4	1544.2	1585.0	1563.2
32.5°	1218.0	1253.3	1239.7	1103.8	1071.1	1101.1	1228.8	1266.9	1242.4
35°	973.3	1005.9	986.9	826.5	796.6	829.2	962.4	1005.9	984.1
37.5°	780.3	804.7	780.3	609.0	581.8	614.4	742.2	799.3	772.1
40°	619.9	638.9	606.3	448.6	426.8	443.1	562.8	619.9	600.8
42.5°	489.4	502.9	467.6	329.0	304.5	326.2	424.1	475.8	464.9
45°	396.9	396.9	353.4	228.4	198.5	220.2	318.1	372.5	375.2
47.5°	339.8	331.7	277.3	152.2	114.2	144.1	252.8	309.9	318.1
50°	293.6	282.7	228.4	111.5	73.4	103.3	209.3	266.4	274.6
52.5°	252.8	244.7	190.3	87.0	51.7	78.8	176.7	231.1	239.2
55°	212.1	206.6	157.7	68.0	40.8	59.8	141.4	187.6	193.0
57.5°	174.0	165.8	127.8	57.1	32.6	48.9	116.9	155.0	160.4
60°	146.8	138.7	103.3	46.2	27.2	38.1	95.2	127.8	133.2
62.5°	122.3	114.2	84.3	38.1	21.7	32.6	76.1	103.3	108.7
65°	97.9	92.4	65.2	29.9	19.0	24.5	59.8	81.6	87.0
67.5°	78.8	73.4	51.7	24.5	16.3	19.0	46.2	65.2	70.7
70°	59.8	54.4	38.1	19.0	13.6	16.3	35.3	48.9	54.4
72.5°	43.5	40.8	29.9	16.3	10.9	13.6	24.5	35.3	40.8
75°	32.6	29.9	21.7	10.9	8.2	10.9	19.0	27.2	29.9
77.5°	21.7	21.7	16.3	8.2	8.2	8.2	13.6	19.0	19.0
80°	16.3	13.6	10.9	5.4	5.4	5.4	8.2	13.6	13.6
82.5°	10.9	8.2	8.2	5.4	5.4	5.4	5.4	8.2	8.2
85°	5.4	5.4	5.4	2.7	2.7	2.7	2.7	5.4	5.4
87.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
90°	0.0	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)