

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: P857791

Luminaire Tested: **LD4C35D010 EU4359050 4LBMDSWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857791
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: LD4C35D010 EU4359050 4LBMDSWH
Description: 4 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

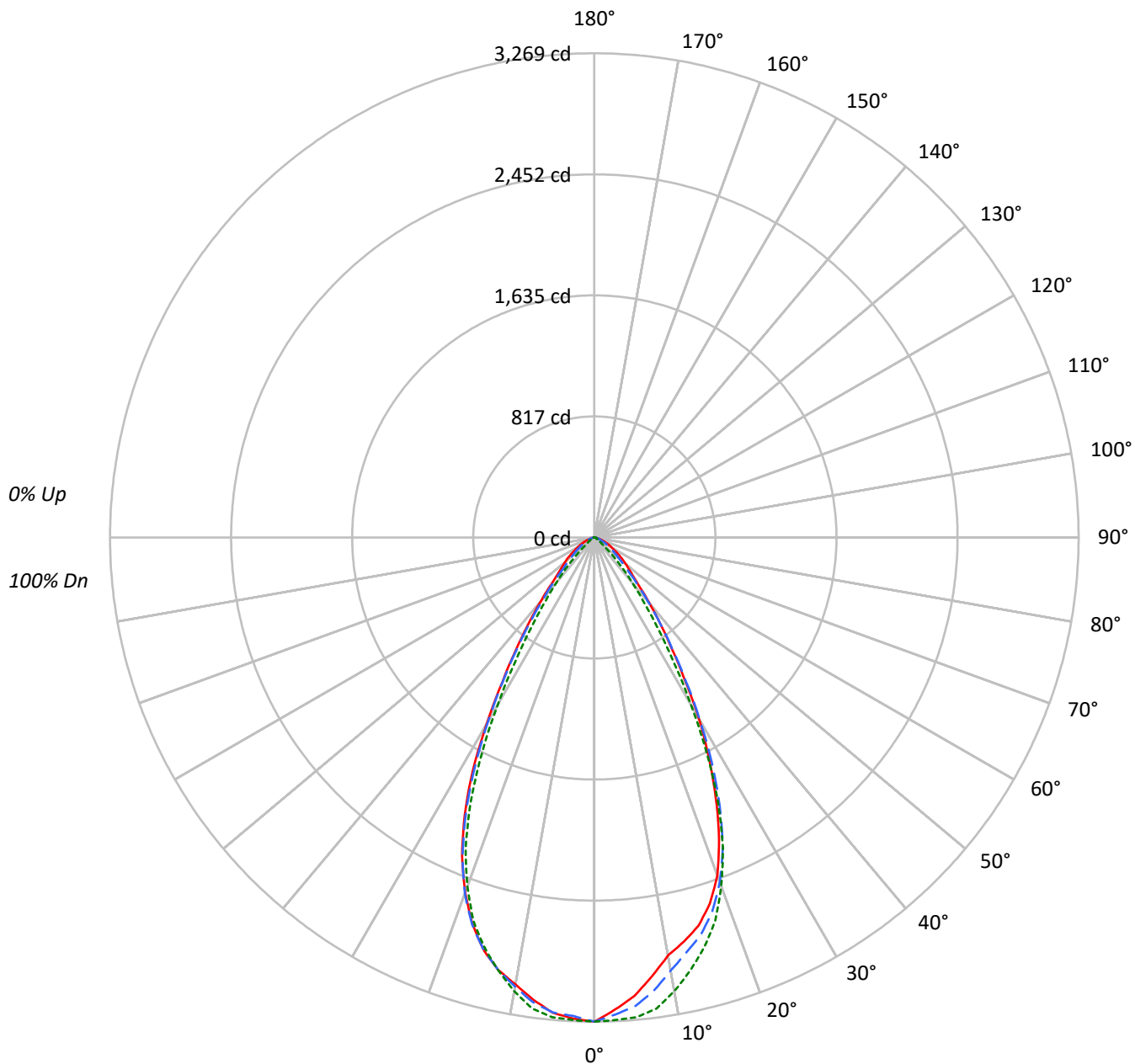
Lumens per Lamp: N/A
Luminaire Lumens: 2976.0 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
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°	401620	401620	401620
5°	383225	400972	397235
10°	357430	387981	382305
15°	345148	364417	366986
20°	317497	327394	333329
25°	263151	267936	280935
30°	200177	185140	205908
35°	135534	110923	137048
40°	92311	63556	89473
45°	64041	32020	60531
50°	52101	13035	48737
55°	42174	8118	38383
60°	33490	6192	30394
65°	26424	5145	23488
70°	19936	4526	18140
75°	14382	3607	13196
80°	10683	3537	8914
85°	7048	3524	7048



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.6	10.1
10°-20°	789.7	26.5
20°-30°	906.1	30.4
30°-40°	550.4	18.5
40°-50°	235.9	7.9
50°-60°	113.2	3.8
60°-70°	55.0	1.8
70°-80°	20.4	0.7
80°-90°	4.7	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°	1996.4	67.1
0°-40°	2546.8	85.6
0°-60°	2895.9	97.3
0°-90°	2976.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2976.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3269	3269	3269	3269	3269	
5°	3108	3176	3251	3219	3221	289
15°	2714	2777	2865	2883	2885	756
25°	1941	2004	1977	2052	2072	881
35°	904	916	740	894	914	579
45°	369	328	184	295	348	299
55°	197	146	38	131	179	178
65°	91	61	18	56	81	92
75°	30	20	8	18	28	33
85°	5	5	2	2	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°	3269.1	3269.1	3269.1	3269.1	3269.1	3269.1	3269.1	3269.1	3269.1
2.5°	3190.8	3226.2	3223.7	3253.9	3261.5	3253.9	3233.8	3253.9	3251.4
5°	3107.5	3147.9	3175.7	3226.2	3251.4	3246.4	3218.6	3223.7	3221.1
7.5°	2986.4	3036.8	3084.8	3160.5	3208.5	3206.0	3165.6	3158.0	3147.9
10°	2865.2	2913.2	2968.7	3046.9	3110.1	3120.2	3079.8	3069.7	3064.6
12.5°	2794.5	2832.4	2870.2	2938.4	2993.9	3014.1	2991.4	2993.9	2991.4
15°	2713.7	2751.6	2776.8	2827.3	2865.2	2893.0	2882.9	2898.0	2885.4
17.5°	2592.6	2638.0	2648.1	2686.0	2713.7	2731.4	2741.5	2756.6	2736.4
20°	2428.5	2463.8	2476.4	2491.6	2504.2	2526.9	2557.2	2572.4	2549.6
22.5°	2198.7	2266.9	2264.4	2256.8	2269.4	2277.0	2325.0	2350.2	2332.5
25°	1941.3	2011.9	2004.4	1974.1	1976.6	1991.7	2052.3	2085.2	2072.5
27.5°	1671.2	1736.8	1719.1	1661.1	1645.9	1668.6	1746.9	1784.7	1777.2
30°	1411.1	1454.1	1426.3	1322.8	1305.1	1332.9	1433.9	1471.7	1451.5
32.5°	1130.9	1163.7	1151.1	1024.9	994.6	1022.4	1141.0	1176.4	1153.6
35°	903.7	934.0	916.4	767.4	739.6	769.9	893.6	934.0	913.8
37.5°	724.5	747.2	724.5	565.5	540.2	570.5	689.2	742.2	716.9
40°	575.6	593.2	562.9	416.5	396.3	411.5	522.5	575.6	557.9
42.5°	454.4	467.0	434.2	305.5	282.7	302.9	393.8	441.8	431.7
45°	368.6	368.6	328.2	212.0	184.3	204.5	295.4	345.8	348.4
47.5°	315.5	308.0	257.5	141.4	106.0	133.8	234.8	287.8	295.4
50°	272.6	262.5	212.0	103.5	68.2	95.9	194.4	247.4	255.0
52.5°	234.8	227.2	176.7	80.8	48.0	73.2	164.1	214.6	222.1
55°	196.9	191.9	146.4	63.1	37.9	55.5	131.3	174.2	179.2
57.5°	161.6	154.0	118.6	53.0	30.3	45.4	108.5	143.9	148.9
60°	136.3	128.7	95.9	42.9	25.2	35.3	88.4	118.6	123.7
62.5°	113.6	106.0	78.3	35.3	20.2	30.3	70.7	95.9	101.0
65°	90.9	85.8	60.6	27.8	17.7	22.7	55.5	75.7	80.8
67.5°	73.2	68.2	48.0	22.7	15.1	17.7	42.9	60.6	65.6
70°	55.5	50.5	35.3	17.7	12.6	15.1	32.8	45.4	50.5
72.5°	40.4	37.9	27.8	15.1	10.1	12.6	22.7	32.8	37.9
75°	30.3	27.8	20.2	10.1	7.6	10.1	17.7	25.2	27.8
77.5°	20.2	20.2	15.1	7.6	7.6	7.6	12.6	17.7	17.7
80°	15.1	12.6	10.1	5.0	5.0	5.0	7.6	12.6	12.6
82.5°	10.1	7.6	7.6	5.0	5.0	5.0	5.0	7.6	7.6
85°	5.0	5.0	5.0	2.5	2.5	2.5	2.5	5.0	5.0
87.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
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)