

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: P859082

Luminaire Tested: **LD4C55D010 EU4559030 4LBMDSWWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859082
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: LD4C55D010 EU4559030 4LBMDSWWH
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH WH FINISH
Light Source: -
Ballast/Driver: -

Summary

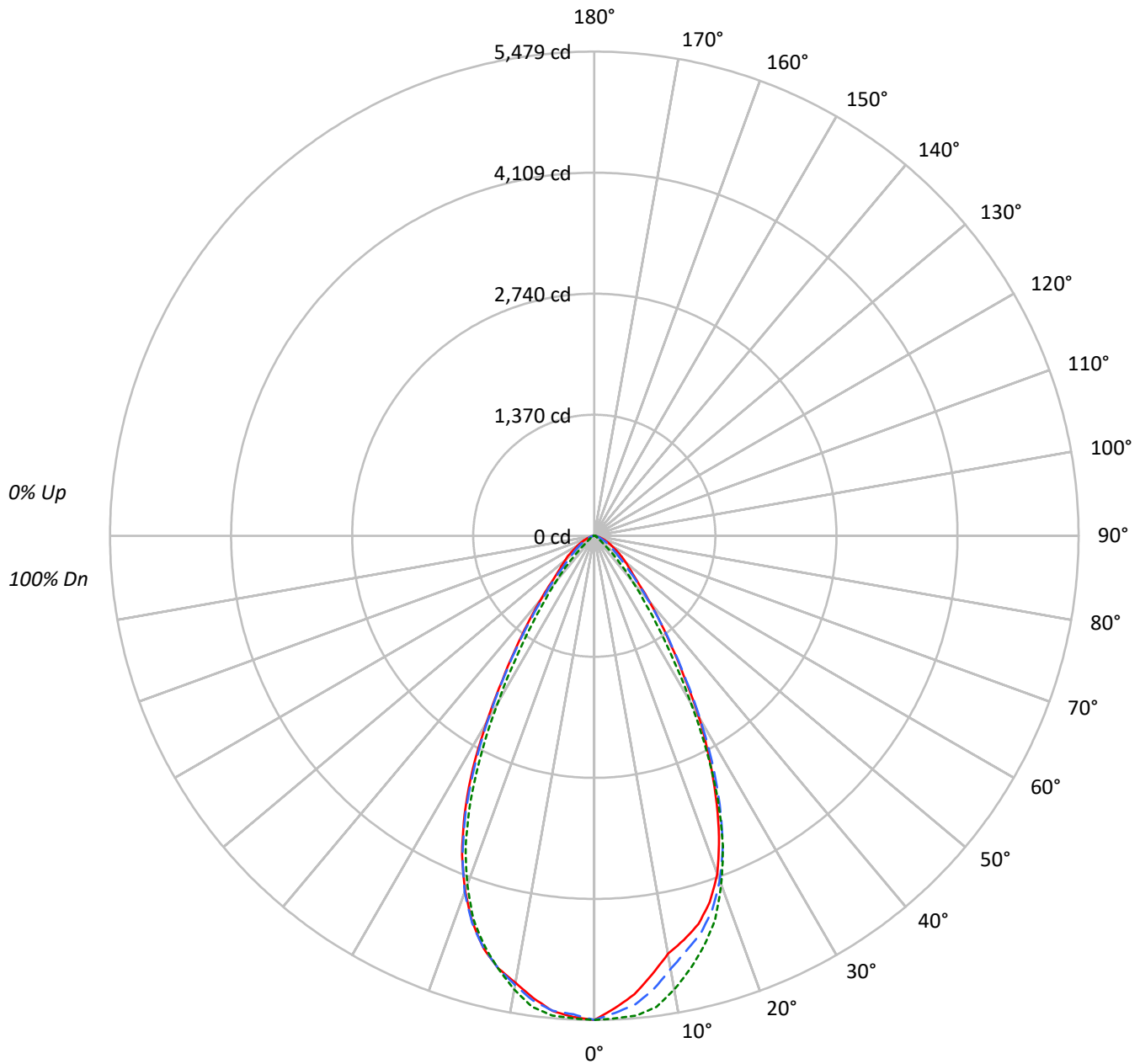
Lumens per Lamp: N/A
Luminaire Lumens: 4988.0 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 63.9
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°	673139	673139	673139
5°	642327	672060	665807
10°	599081	650277	640772
15°	578499	610791	615090
20°	532143	548733	558696
25°	441051	449076	470873
30°	335525	310317	345129
35°	227169	185926	229719
40°	154713	106536	149966
45°	107320	53669	101447
50°	87345	21827	81668
55°	70682	13601	64342
60°	56144	10393	50935
65°	44273	8605	39360
70°	33441	7615	30388
75°	24113	6028	22072
80°	17970	6014	14999
85°	11981	5920	11981



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	503.8	10.1
10°-20°	1323.6	26.5
20°-30°	1518.7	30.4
30°-40°	922.6	18.5
40°-50°	395.4	7.9
50°-60°	189.7	3.8
60°-70°	92.2	1.8
70°-80°	34.2	0.7
80°-90°	7.9	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°	3346.1	67.1
0°-40°	4268.6	85.6
0°-60°	4853.7	97.3
0°-90°	4988.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4988.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5479	5479	5479	5479	5479	
5°	5208	5323	5450	5395	5399	484
15°	4548	4654	4802	4832	4836	1266
25°	3254	3360	3313	3440	3474	1476
35°	1515	1536	1240	1498	1532	971
45°	618	550	309	495	584	502
55°	330	245	64	220	300	298
65°	152	102	30	93	135	155
75°	51	34	13	30	46	56
85°	8	8	4	4	8	12
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°	5479.2	5479.2	5479.2	5479.2	5479.2	5479.2	5479.2	5479.2	5479.2
2.5°	5348.1	5407.3	5403.1	5453.9	5466.6	5453.9	5420.0	5453.9	5449.6
5°	5208.5	5276.2	5322.7	5407.3	5449.6	5441.2	5394.6	5403.1	5398.9
7.5°	5005.4	5090.0	5170.4	5297.3	5377.7	5373.5	5305.8	5293.1	5276.2
10°	4802.3	4882.7	4975.7	5106.9	5212.7	5229.6	5161.9	5145.0	5136.5
12.5°	4683.8	4747.3	4810.7	4925.0	5018.1	5051.9	5013.8	5018.1	5013.8
15°	4548.4	4611.9	4654.2	4738.8	4802.3	4848.8	4831.9	4857.3	4836.1
17.5°	4345.3	4421.5	4438.4	4501.9	4548.4	4578.0	4595.0	4620.3	4586.5
20°	4070.3	4129.5	4150.7	4176.1	4197.2	4235.3	4286.1	4311.5	4273.4
22.5°	3685.3	3799.5	3795.3	3782.6	3803.7	3816.4	3896.8	3939.1	3909.5
25°	3253.7	3372.2	3359.5	3308.7	3312.9	3338.3	3439.9	3494.9	3473.7
27.5°	2801.0	2911.0	2881.4	2784.0	2758.7	2796.7	2927.9	2991.4	2978.7
30°	2365.2	2437.1	2390.6	2217.1	2187.5	2234.0	2403.3	2466.7	2432.9
32.5°	1895.5	1950.5	1929.4	1717.8	1667.0	1713.6	1912.4	1971.7	1933.6
35°	1514.7	1565.5	1535.9	1286.2	1239.7	1290.5	1497.8	1565.5	1531.7
37.5°	1214.3	1252.4	1214.3	947.8	905.5	956.2	1155.1	1243.9	1201.6
40°	964.7	994.3	943.5	698.1	664.3	689.7	875.8	964.7	935.1
42.5°	761.6	782.7	727.7	512.0	473.9	507.7	660.0	740.4	723.5
45°	617.7	617.7	550.0	355.4	308.9	342.7	495.0	579.7	583.9
47.5°	528.9	516.2	431.6	236.9	177.7	224.2	393.5	482.3	495.0
50°	457.0	440.0	355.4	173.5	114.2	160.8	325.8	414.6	427.3
52.5°	393.5	380.8	296.2	135.4	80.4	122.7	275.0	359.6	372.3
55°	330.0	321.6	245.4	105.8	63.5	93.1	220.0	291.9	300.4
57.5°	270.8	258.1	198.9	88.9	50.8	76.2	181.9	241.2	249.6
60°	228.5	215.8	160.8	71.9	42.3	59.2	148.1	198.9	207.3
62.5°	190.4	177.7	131.2	59.2	33.8	50.8	118.5	160.8	169.2
65°	152.3	143.9	101.5	46.5	29.6	38.1	93.1	126.9	135.4
67.5°	122.7	114.2	80.4	38.1	25.4	29.6	71.9	101.5	110.0
70°	93.1	84.6	59.2	29.6	21.2	25.4	55.0	76.2	84.6
72.5°	67.7	63.5	46.5	25.4	16.9	21.2	38.1	55.0	63.5
75°	50.8	46.5	33.8	16.9	12.7	16.9	29.6	42.3	46.5
77.5°	33.8	33.8	25.4	12.7	12.7	12.7	21.2	29.6	29.6
80°	25.4	21.2	16.9	8.5	8.5	8.5	12.7	21.2	21.2
82.5°	16.9	12.7	12.7	8.5	8.5	8.5	8.5	12.7	12.7
85°	8.5	8.5	8.5	4.2	4.2	4.2	4.2	8.5	8.5
87.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
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)