

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: P250148

Luminaire Tested: **LD8B80D010 ER8B80850 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250148
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13942)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B80D010 ER8B80850 8LBM0WH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT
80 CRI 5000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8504.0 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.8 / 0.85
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

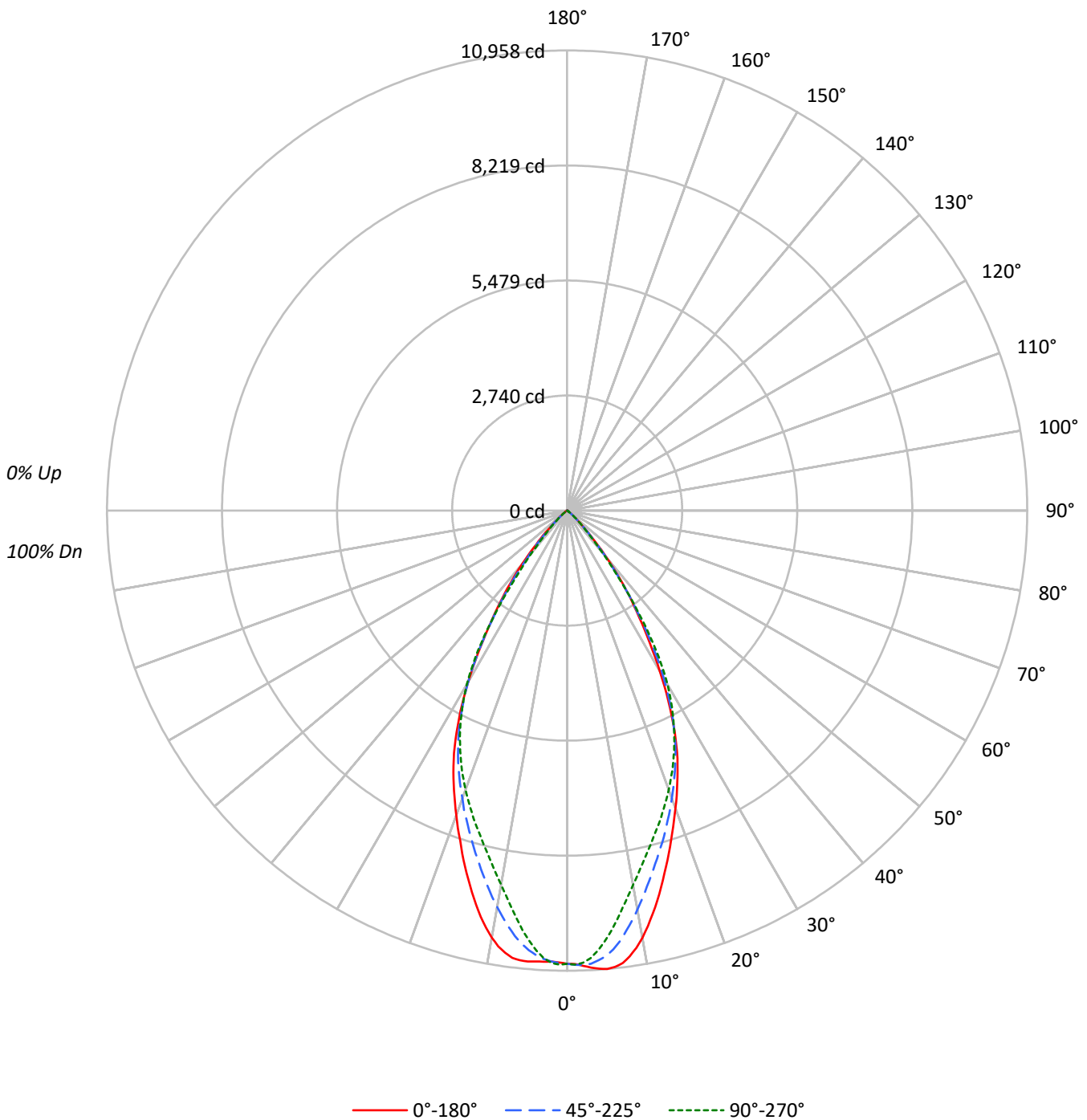
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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				100
1	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94				94
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87				87
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	81				81
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76				76
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71				71
6	88	80	74	69	87	79	73	69	77	72	69	76	72	68	75	71	68	66				66
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62				62
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58				58
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	64	59	56	55				55
10	73	63	57	54	72	63	57	54	62	57	53	61	56	53	60	56	53	52				52

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	332795	332795	332795
5°	339186	318635	333660
10°	323387	283458	323306
15°	285564	255658	290420
20°	247467	232054	253324
25°	209088	205519	216764
30°	157150	170136	167896
35°	105197	111224	114088
40°	58940	50595	67598
45°	23688	20823	28150
50°	8179	7930	9691
55°	2258	2683	2543
60°	1295	1622	1455
65°	1146	956	766
70°	0	712	478
75°	0	0	0
80°	0	0	462
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	979.7	11.5
10°-20°	2369.6	27.9
20°-30°	2777.3	32.7
30°-40°	1827.3	21.5
40°-50°	476.8	5.6
50°-60°	58.7	0.7
60°-70°	12.2	0.1
70°-80°	2.3	0.0
80°-90°	0.1	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°	6126.7	72.0
0°-40°	7954.0	93.5
0°-60°	8489.5	99.8
0°-90°	8504.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8504.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10792	10792	10792	10792	10792	
5°	10958	10645	10294	10506	10779	###
15°	8945	8439	8008	8439	9097	2493
25°	6145	6085	6040	6143	6371	2770
35°	2794	2858	2955	2983	3031	1750
45°	543	512	478	554	646	487
55°	42	45	50	50	47	56
65°	16	13	13	10	10	11
75°	0	3	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°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	10792.3	10792.3	10792.3	10792.3	10792.3	10792.3	10792.3	10792.3	10792.3
1°	10800.2	10816.0	10821.2	10837.0	10813.3	10797.6	10776.6	10760.8	10763.4
2°	10847.4	10855.3	10826.4	10816.0	10774.0	10760.8	10745.1	10742.4	10745.1
3°	10897.3	10881.5	10805.4	10734.6	10671.6	10663.7	10692.6	10734.6	10758.2
4°	10936.7	10894.7	10734.6	10603.4	10503.7	10495.8	10611.3	10718.8	10763.4
5°	10957.7	10881.5	10645.4	10425.0	10293.8	10343.6	10506.3	10697.8	10779.2
6°	10928.8	10816.0	10508.9	10215.1	10065.5	10131.1	10369.9	10648.0	10768.7
7°	10855.3	10711.0	10333.1	9986.8	9803.1	9905.4	10209.8	10564.0	10729.4
8°	10718.8	10545.7	10110.1	9721.7	9540.7	9656.1	10013.0	10443.3	10634.9
9°	10540.4	10348.9	9889.7	9480.3	9286.2	9422.6	9808.3	10283.3	10503.7
10°	10327.9	10123.2	9645.7	9228.5	9052.7	9181.2	9587.9	10096.9	10325.3
11°	10078.6	9881.8	9401.6	8992.3	8824.4	8950.3	9367.5	9874.0	10120.6
12°	9808.3	9627.3	9152.4	8764.0	8606.6	8727.3	9131.4	9643.0	9887.1
13°	9538.1	9357.0	8911.0	8543.6	8399.3	8514.7	8900.4	9391.2	9635.1
14°	9246.8	9081.5	8669.6	8333.7	8202.5	8312.7	8664.3	9136.6	9367.5
15°	8945.1	8813.8	8438.6	8131.6	8008.3	8113.2	8438.6	8874.2	9097.2
16°	8661.7	8541.0	8215.6	7932.2	7829.9	7913.8	8210.4	8611.8	8824.4
17°	8373.0	8262.8	7992.5	7735.4	7643.6	7724.9	7976.8	8346.8	8538.3
18°	8084.4	7992.5	7748.6	7528.1	7446.8	7520.3	7745.9	8079.1	8252.3
19°	7816.7	7732.8	7525.5	7339.2	7265.7	7331.3	7543.9	7822.0	7995.2
20°	7541.2	7473.0	7291.9	7139.8	7071.5	7131.9	7297.2	7567.5	7719.7
21°	7276.2	7215.9	7058.4	6929.8	6874.7	6924.6	7076.8	7320.8	7454.6
22°	7000.7	6966.6	6824.9	6717.3	6680.6	6712.1	6851.1	7061.1	7187.0
23°	6730.4	6699.0	6591.4	6502.2	6470.7	6502.2	6625.5	6814.4	6927.3
24°	6457.6	6423.5	6344.7	6287.0	6260.8	6287.0	6391.9	6552.0	6659.6
25°	6145.3	6140.1	6085.0	6053.5	6040.4	6069.2	6142.7	6281.8	6370.9
26°	5846.1	5830.4	5814.7	5809.4	5812.0	5827.8	5888.1	5993.1	6064.0
27°	5478.8	5502.5	5526.0	5557.5	5568.0	5581.2	5610.0	5686.1	5738.6
28°	5127.2	5171.8	5229.5	5292.5	5321.4	5321.4	5324.0	5366.0	5410.6
29°	4778.2	4825.4	4917.3	5011.7	5051.1	5045.8	5024.8	5043.2	5069.5
30°	4413.5	4473.8	4597.2	4720.5	4778.2	4757.2	4717.9	4699.5	4715.3
31°	4056.7	4117.0	4253.4	4387.2	4463.3	4439.8	4371.5	4358.4	4366.2
32°	3715.5	3775.9	3901.8	4043.5	4130.1	4098.6	4027.8	4006.8	4009.4
33°	3384.9	3432.1	3547.6	3678.8	3749.6	3741.7	3684.0	3657.8	3660.4
34°	3072.7	3112.0	3198.6	3298.3	3366.5	3363.9	3321.9	3324.5	3332.4
35°	2794.5	2815.5	2857.5	2912.6	2954.6	2978.2	2983.4	3004.4	3030.7
37.5°	2112.3	2120.1	2070.3	2015.2	2004.7	2072.9	2191.0	2293.4	2332.7
40°	1464.2	1445.8	1382.8	1285.7	1256.9	1333.0	1482.5	1626.9	1679.3
42.5°	910.5	902.6	863.3	789.8	763.6	808.2	921.0	1031.2	1083.7
45°	543.2	532.6	511.6	482.8	477.5	495.9	553.6	616.6	645.5
47.5°	312.2	309.7	296.5	286.0	283.4	296.5	322.8	359.5	367.4
50°	170.5	168.0	165.3	165.3	165.3	173.2	186.3	196.8	202.0
52.5°	84.0	86.6	84.0	86.6	89.2	94.4	91.8	102.3	102.3
55°	42.0	39.4	44.6	49.9	49.9	49.9	49.9	49.9	47.3
57.5°	31.5	34.1	28.9	31.5	28.9	28.9	26.3	28.9	31.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	21.0	18.4	21.0	23.6	26.3	23.6	18.4	21.0	23.6
62.5°	10.5	10.5	10.5	15.7	23.6	18.4	15.7	13.1	13.1
65°	15.7	10.5	13.1	15.7	13.1	13.1	10.5	13.1	10.5
67.5°	7.9	13.1	7.9	5.3	7.9	10.5	7.9	5.3	5.3
70°	0.0	2.6	2.6	7.9	7.9	7.9	7.9	5.3	5.3
72.5°	2.6	2.6	2.6	5.3	2.6	5.3	2.6	2.6	5.3
75°	0.0	0.0	2.6	2.6	0.0	2.6	0.0	0.0	0.0
77.5°	2.6	0.0	2.6	2.6	0.0	0.0	0.0	2.6	0.0
80°	0.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	2.6
82.5°	0.0	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	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)