

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: P247394

Luminaire Tested: **LD8B80D010 ER8B80840 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247394
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13927)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B80D010 ER8B80840 8LBW0WH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8644.0 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.12
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

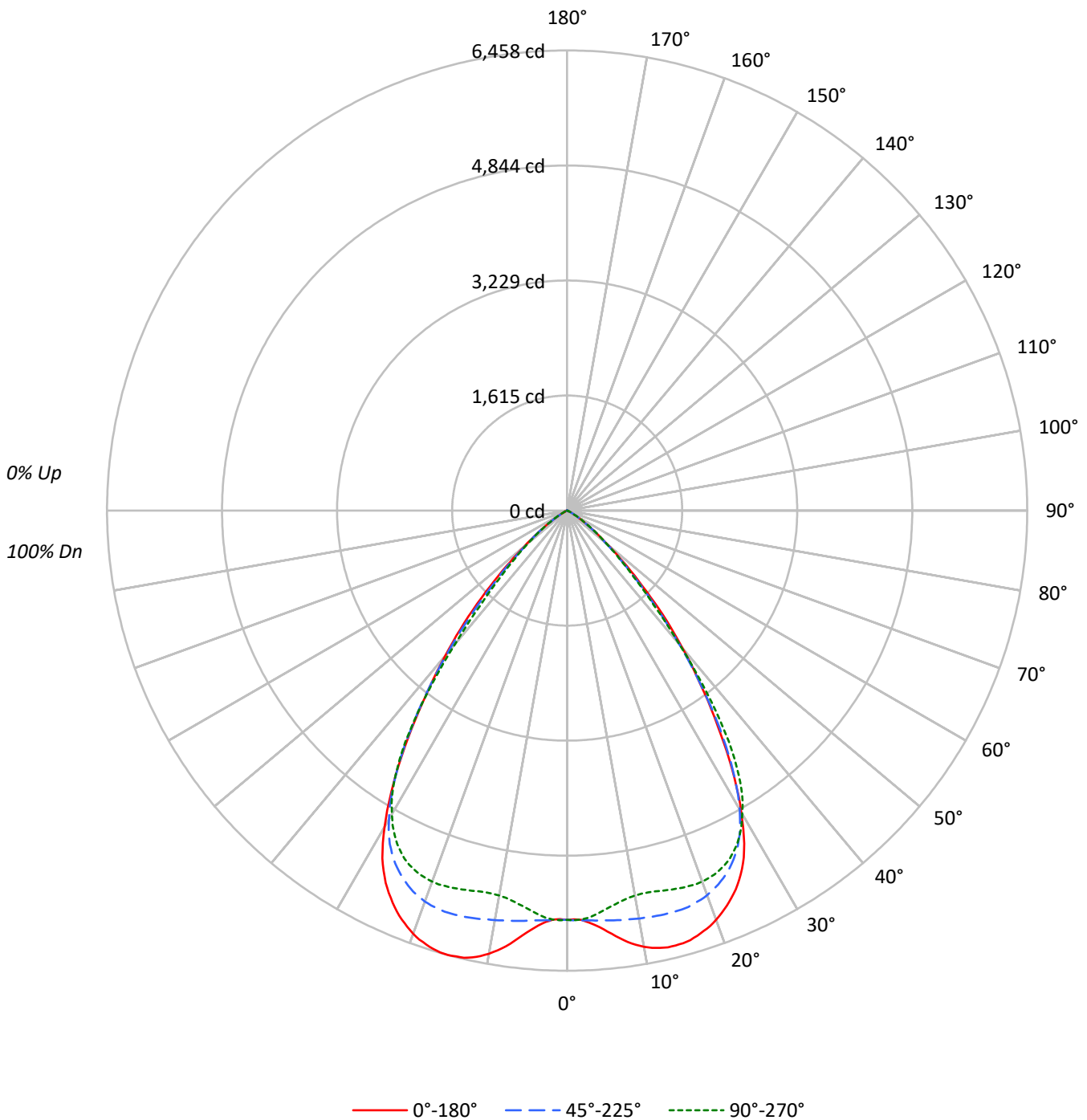
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	100	96	95	94	92		
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92	92	92	90	88	86	84		
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84	84	84	83	79	84	81	78	
3	100	93	87	83	98	91	86	82	89	84	81	86	83	79	84	81	78	76	76	76	76	74	71	70		
4	94	85	79	74	92	84	79	74	82	77	73	80	76	72	78	74	71	70	70	70	70	67	65	64		
5	88	79	72	67	87	78	72	67	76	71	67	74	70	66	73	69	65	64	64	64	64	61	59	58		
6	83	73	66	61	81	72	66	61	71	65	61	69	64	60	68	63	60	58	58	58	58	55	53	53		
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	53	53	53	53	51	49	49		
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	49	49	49	47	45	45	45		
9	70	59	52	48	68	58	52	48	57	51	47	56	51	47	55	50	47	45	45	45	45	43	42	42		
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	42	42	42	42	40	39	38		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	177176	177176	177176
5°	182614	174680	182914
10°	194661	171734	197717
15°	200649	175946	206179
20°	200643	181820	207449
25°	194495	183533	201474
30°	174081	175121	182424
35°	138651	149033	146368
40°	101299	98550	107092
45°	64716	57691	70359
50°	35011	34305	37587
55°	17978	18634	17978
60°	7826	7826	5717
65°	1605	2138	1780
70°	1100	1542	1758
75°	0	870	0
80°	426	426	1723
85°	0	849	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	553.8	6.4
10°-20°	1666.3	19.3
20°-30°	2536.1	29.3
30°-40°	2360.2	27.3
40°-50°	1148.7	13.3
50°-60°	327.3	3.8
60°-70°	42.8	0.5
70°-80°	6.8	0.1
80°-90°	2.0	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°	4756.2	55.0
0°-40°	7116.4	82.3
0°-60°	8592.4	99.4
0°-90°	8644.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8644.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5746	5746	5746	5746	5746	
5°	5900	5770	5643	5775	5909	575
15°	6285	5829	5511	5885	6458	1768
25°	5716	5468	5394	5587	5922	2595
35°	3683	3734	3959	3918	3888	2290
45°	1484	1374	1323	1482	1613	1173
55°	334	334	347	339	334	328
65°	22	27	29	27	24	42
75°	0	2	7	2	0	4
85°	0	2	2	5	0	1
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°	5745.7	5745.7	5745.7	5745.7	5745.7	5745.7	5745.7	5745.7	5745.7
1°	5738.3	5745.7	5750.6	5748.2	5750.6	5748.2	5743.3	5733.5	5733.5
2°	5748.2	5757.9	5755.4	5750.6	5743.3	5743.3	5757.9	5738.3	5743.3
3°	5787.2	5787.2	5757.9	5731.1	5721.3	5731.1	5755.4	5770.1	5782.3
4°	5836.0	5826.2	5767.7	5706.7	5687.1	5711.5	5765.3	5811.6	5836.0
5°	5899.5	5870.1	5770.1	5677.4	5643.2	5679.8	5775.0	5862.8	5909.2
6°	5972.7	5928.7	5784.7	5645.6	5601.7	5652.9	5789.7	5923.9	5994.6
7°	6046.0	5975.1	5792.1	5621.2	5565.0	5635.9	5801.8	5992.2	6084.9
8°	6114.3	6019.0	5799.4	5599.3	5530.9	5604.1	5811.6	6053.2	6175.3
9°	6170.4	6060.5	5804.2	5582.2	5501.6	5584.6	5823.8	6106.9	6250.9
10°	6216.8	6092.3	5814.1	5572.4	5484.6	5574.9	5836.0	6153.4	6314.4
11°	6253.4	6114.3	5816.5	5567.5	5477.2	5567.5	5845.7	6199.7	6368.2
12°	6275.3	6133.8	5823.8	5570.0	5479.6	5574.9	5860.4	6219.3	6412.1
13°	6290.0	6141.1	5828.7	5577.3	5484.6	5579.7	5870.1	6236.3	6441.3
14°	6290.0	6136.3	5828.7	5584.6	5499.2	5589.4	5877.5	6248.5	6448.6
15°	6285.2	6133.8	5828.7	5596.8	5511.4	5599.3	5884.8	6255.8	6458.4
16°	6270.5	6119.1	5826.2	5604.1	5523.5	5609.0	5887.2	6250.9	6451.1
17°	6241.2	6111.9	5816.5	5611.4	5535.8	5618.8	5887.2	6238.8	6434.0
18°	6202.1	6060.5	5792.1	5604.1	5538.2	5616.4	5872.7	6207.0	6402.3
19°	6167.9	6031.3	5775.0	5599.3	5547.9	5623.7	5862.8	6185.0	6368.2
20°	6114.3	5982.5	5745.7	5584.6	5540.7	5609.0	5838.5	6146.0	6321.7
21°	6048.4	5926.3	5704.2	5560.2	5528.5	5589.4	5804.2	6092.3	6258.2
22°	5982.5	5862.8	5660.3	5535.8	5509.0	5572.4	5767.7	6036.1	6192.3
23°	5904.3	5792.1	5604.1	5494.3	5479.6	5533.4	5716.4	5975.1	6114.3
24°	5816.5	5709.1	5543.1	5447.9	5443.1	5491.9	5657.9	5894.6	6021.5
25°	5716.4	5621.2	5467.5	5389.3	5394.2	5435.7	5587.0	5804.2	5921.5
26°	5596.8	5509.0	5379.6	5318.6	5325.9	5367.4	5506.5	5699.4	5811.6
27°	5462.6	5382.0	5277.1	5233.1	5252.7	5289.2	5408.9	5584.6	5674.9
28°	5294.2	5230.7	5155.0	5135.5	5159.9	5201.4	5301.5	5445.5	5526.0
29°	5098.9	5064.7	5006.1	5015.9	5050.0	5084.2	5167.2	5272.2	5335.7
30°	4889.0	4874.3	4840.2	4879.2	4918.2	4947.6	5003.7	5074.5	5123.3
31°	4674.2	4657.1	4661.9	4725.4	4784.0	4803.5	4835.2	4869.4	4906.1
32°	4432.6	4427.6	4447.1	4540.0	4615.6	4625.4	4627.8	4637.5	4657.1
33°	4186.0	4178.7	4217.8	4332.5	4417.9	4425.2	4405.6	4395.9	4410.6
34°	3929.7	3929.7	3981.0	4100.6	4200.7	4207.9	4168.9	4164.0	4149.4
35°	3683.2	3675.9	3734.4	3846.8	3959.0	3961.5	3917.5	3890.7	3888.2
37.5°	3073.0	3060.8	3080.3	3138.9	3221.9	3265.9	3260.9	3251.2	3243.9
40°	2516.5	2487.2	2448.2	2423.7	2448.2	2538.5	2616.5	2653.2	2660.4
42.5°	1991.7	1950.3	1867.3	1798.8	1808.7	1891.7	2011.2	2094.2	2135.7
45°	1484.0	1442.5	1374.2	1322.9	1322.9	1381.5	1481.6	1567.0	1613.4
47.5°	1059.3	1032.5	993.4	971.4	986.1	1010.5	1066.7	1130.1	1149.6
50°	729.8	722.5	700.6	700.6	715.1	734.7	744.5	776.2	783.5
52.5°	510.2	497.9	500.3	502.8	515.0	517.5	532.1	524.7	537.0
55°	334.4	334.4	334.4	341.7	346.6	346.6	339.3	334.4	334.4
57.5°	212.4	207.5	209.9	214.8	214.8	207.5	195.3	192.8	180.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	126.9	126.9	129.4	129.4	126.9	119.6	107.4	97.7	92.7
62.5°	65.9	68.3	68.3	80.6	68.3	61.0	56.2	43.9	41.5
65°	22.0	26.8	26.8	26.8	29.3	26.8	26.8	24.4	24.4
67.5°	14.7	17.1	17.1	19.5	19.5	19.5	19.5	24.4	17.1
70°	12.2	12.2	14.7	17.1	17.1	19.5	14.7	12.2	19.5
72.5°	7.3	9.7	7.3	12.2	9.7	9.7	9.7	9.7	9.7
75°	0.0	4.9	2.4	0.0	7.3	4.9	2.4	4.9	0.0
77.5°	2.4	2.4	2.4	2.4	4.9	4.9	4.9	4.9	2.4
80°	2.4	2.4	4.9	2.4	2.4	4.9	0.0	0.0	9.7
82.5°	2.4	2.4	2.4	2.4	2.4	2.4	0.0	2.4	2.4
85°	0.0	2.4	2.4	2.4	2.4	2.4	4.9	4.9	0.0
87.5°	0.0	2.4	0.0	2.4	0.0	0.0	0.0	4.9	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)