

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: P250138

Luminaire Tested: **LD8B150D010 ER8B150835 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250138
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: LD8B150D010 ER8B150835 8LBM0WH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT
80 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16174.0 lumens
Efficiency: N/A
Efficacy: 102.0 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

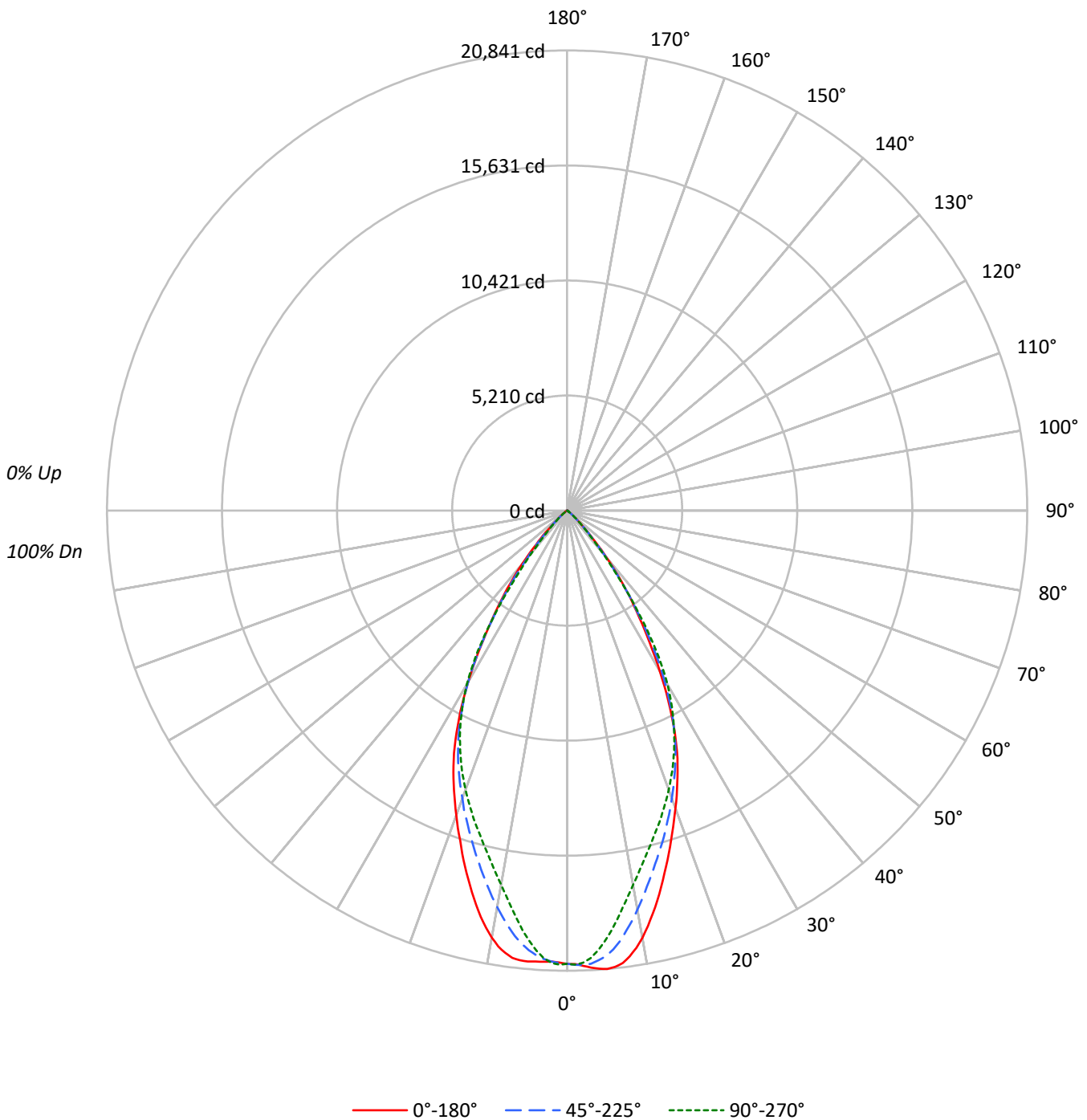
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	632952	632952	632952
5°	645105	606023	634596
10°	615059	539115	614902
15°	543122	486246	552360
20°	470667	441353	481804
25°	397674	390879	412274
30°	298890	323590	319325
35°	200079	211538	216985
40°	112095	96223	128567
45°	45053	39610	53539
50°	15558	15083	18436
55°	4296	5102	4833
60°	2461	3077	2769
65°	2182	1817	1452
70°	0	1352	902
75°	0	0	0
80°	0	0	888
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1863.4	11.5
10°-20°	4506.9	27.9
20°-30°	5282.3	32.7
30°-40°	3475.4	21.5
40°-50°	906.9	5.6
50°-60°	111.5	0.7
60°-70°	23.1	0.1
70°-80°	4.3	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°	11652.5	72.0
0°-40°	15127.9	93.5
0°-60°	16146.4	99.8
0°-90°	16174.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16174.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	20526	20526	20526	20526	20526	
5°	20841	20247	19578	19982	20501	###
15°	17013	16050	15231	16050	17302	4742
25°	11688	11573	11488	11683	12117	5269
35°	5315	5435	5619	5674	5764	3328
45°	1033	973	908	1053	1228	926
55°	80	85	95	95	90	106
65°	30	25	25	20	20	21
75°	0	5	0	0	0	3
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°	20526.2	20526.2	20526.2	20526.2	20526.2	20526.2	20526.2	20526.2	20526.2
1°	20541.1	20571.2	20581.1	20611.1	20566.2	20536.3	20496.3	20466.3	20471.3
2°	20631.0	20646.0	20591.1	20571.2	20491.3	20466.3	20436.4	20431.4	20436.4
3°	20725.9	20695.9	20551.2	20416.5	20296.7	20281.7	20336.6	20416.5	20461.3
4°	20800.8	20720.9	20416.5	20166.9	19977.2	19962.3	20181.9	20386.4	20471.3
5°	20840.7	20695.9	20246.7	19827.5	19578.1	19672.8	19982.2	20346.5	20501.2
6°	20785.7	20571.2	19987.3	19428.3	19143.8	19268.6	19722.8	20251.7	20481.3
7°	20646.0	20371.5	19652.9	18994.1	18644.8	18839.4	19418.3	20092.0	20406.5
8°	20386.4	20057.1	19228.7	18490.0	18145.7	18365.3	19044.1	19862.5	20226.8
9°	20047.1	19682.8	18809.5	18030.9	17661.6	17921.1	18654.8	19558.0	19977.2
10°	19642.9	19253.6	18345.3	17551.9	17217.5	17462.0	18235.6	19203.7	19637.9
11°	19168.7	18794.5	17881.2	17102.7	16783.3	17022.9	17816.4	18779.6	19248.6
12°	18654.8	18310.4	17407.2	16668.5	16369.1	16598.7	17367.2	18340.3	18804.5
13°	18140.7	17796.3	16948.0	16249.3	15974.8	16194.4	16928.0	17861.3	18325.3
14°	17586.8	17272.4	16488.9	15850.0	15600.5	15810.1	16478.9	17377.1	17816.4
15°	17012.9	16763.3	16049.7	15465.7	15231.3	15430.8	16049.7	16878.1	17302.3
16°	16473.9	16244.3	15625.4	15086.5	14891.9	15051.5	15615.6	16379.1	16783.3
17°	15924.9	15715.3	15201.2	14712.2	14537.6	14692.3	15171.3	15875.0	16239.3
18°	15376.0	15201.2	14737.2	14318.0	14163.3	14303.0	14732.2	15366.0	15695.3
19°	14866.9	14707.2	14313.0	13958.6	13818.9	13943.6	14347.9	14876.9	15206.2
20°	14342.9	14213.1	13868.8	13579.4	13449.6	13564.3	13878.8	14392.9	14682.3
21°	13838.8	13724.1	13424.6	13180.1	13075.3	13170.2	13459.6	13923.7	14178.2
22°	13314.9	13250.0	12980.5	12775.9	12706.0	12765.9	13030.3	13429.6	13669.2
23°	12800.8	12740.9	12536.3	12366.7	12306.7	12366.7	12601.2	12960.5	13175.2
24°	12281.8	12217.0	12067.3	11957.4	11907.5	11957.4	12157.0	12461.4	12666.1
25°	11688.0	11678.0	11573.2	11513.2	11488.3	11543.2	11683.0	11947.5	12117.1
26°	11118.9	11089.0	11059.1	11049.1	11054.1	11084.0	11198.8	11398.5	11533.3
27°	10420.3	10465.3	10510.1	10570.0	10590.0	10615.0	10669.8	10814.5	10914.4
28°	9751.5	9836.4	9946.2	10066.0	10120.9	10120.9	10125.8	10205.7	10290.5
29°	9087.9	9177.6	9352.4	9532.0	9606.8	9596.8	9556.9	9591.8	9641.8
30°	8394.2	8508.9	8743.5	8978.1	9087.9	9047.9	8973.1	8938.2	8968.1
31°	7715.5	7830.2	8089.7	8344.2	8488.9	8444.1	8314.3	8289.4	8304.3
32°	7066.7	7181.5	7420.9	7690.4	7855.2	7795.3	7660.5	7620.6	7625.6
33°	6437.8	6527.7	6747.2	6996.8	7131.5	7116.5	7006.7	6956.9	6961.8
34°	5844.0	5918.8	6083.5	6273.2	6402.9	6397.9	6318.0	6323.0	6338.0
35°	5315.0	5354.9	5434.7	5539.6	5619.4	5664.2	5674.3	5714.2	5764.1
37.5°	4017.5	4032.4	3937.6	3832.7	3812.8	3942.6	4167.2	4361.8	4436.7
40°	2784.7	2749.8	2630.0	2445.4	2390.4	2535.3	2819.7	3094.2	3193.9
42.5°	1731.8	1716.8	1641.9	1502.2	1452.3	1537.1	1751.7	1961.3	2061.1
45°	1033.1	1013.0	973.1	918.3	908.3	943.2	1053.0	1172.8	1227.7
47.5°	593.8	588.9	563.9	544.0	539.0	563.9	613.9	683.7	698.7
50°	324.3	319.4	314.4	314.4	314.4	329.3	354.4	374.3	384.3
52.5°	159.7	164.7	159.7	164.7	169.7	179.6	174.6	194.6	194.6
55°	79.9	74.9	84.9	94.9	94.9	94.9	94.9	94.9	89.9
57.5°	59.8	64.8	54.9	59.8	54.9	54.9	49.9	54.9	59.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	39.9	34.9	39.9	44.9	49.9	44.9	34.9	39.9	44.9
62.5°	19.9	19.9	19.9	29.9	44.9	34.9	29.9	24.9	24.9
65°	29.9	19.9	24.9	29.9	24.9	24.9	19.9	24.9	19.9
67.5°	15.0	24.9	15.0	10.0	15.0	19.9	15.0	10.0	10.0
70°	0.0	5.0	5.0	15.0	15.0	15.0	15.0	10.0	10.0
72.5°	5.0	5.0	5.0	10.0	5.0	10.0	5.0	5.0	10.0
75°	0.0	0.0	5.0	5.0	0.0	5.0	0.0	0.0	0.0
77.5°	5.0	0.0	5.0	5.0	0.0	0.0	0.0	5.0	0.0
80°	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	5.0
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)