

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: P247410

Luminaire Tested: **LSR8B80D010 EC8B80935 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247410
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: LSR8B80D010 EC8B80935 8LBW0WH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7420.0 lumens
Efficiency: N/A
Efficacy: 99.7 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

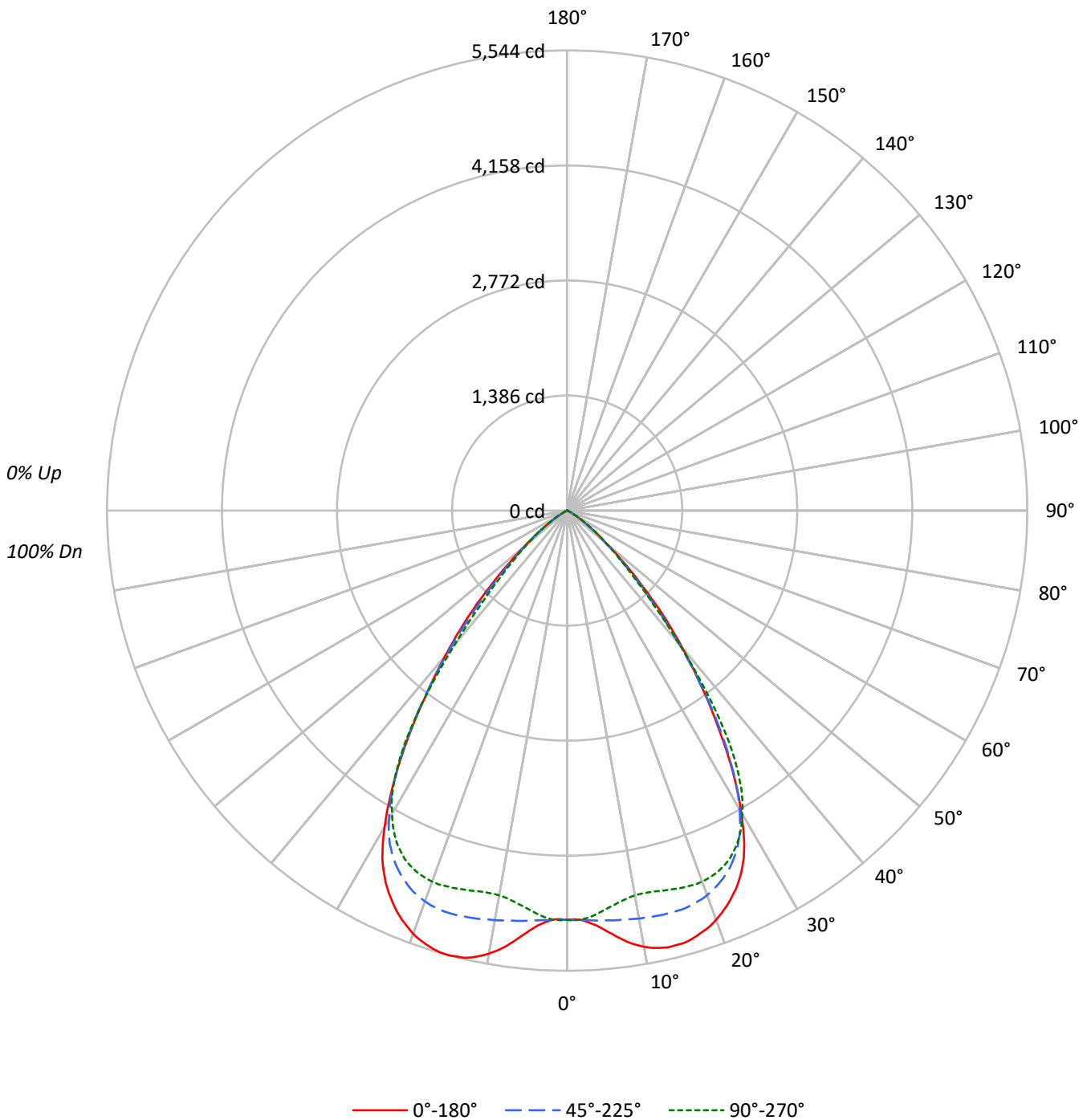
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P247410

CATALOG NUMBER: LSR8B80D010 EC8B80935 8LBW0WH

Luminous Intensity Polar Plot





TEST NUMBER: P247410

CATALOG NUMBER: LSR8B80D010 EC8B80935 8LBW0WH

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	152088	152088	152088
5°	156755	149945	157015
10°	167097	147414	169721
15°	172237	151033	176984
20°	172231	156073	178076
25°	166956	157545	172945
30°	149431	150324	156591
35°	119020	127930	125645
40°	86953	84594	91928
45°	55554	49523	60394
50°	30050	29450	32266
55°	15430	15994	15430
60°	6716	6716	4909
65°	1379	1839	1532
70°	938	1325	1506
75°	0	751	0
80°	373	373	1492
85°	0	743	0



TEST NUMBER: P247410

CATALOG NUMBER: LSR8B80D010 EC8B80935 8LBW0WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.4	6.4
10°-20°	1430.3	19.3
20°-30°	2177.0	29.3
30°-40°	2026.0	27.3
40°-50°	986.0	13.3
50°-60°	281.0	3.8
60°-70°	36.7	0.5
70°-80°	5.8	0.1
80°-90°	1.8	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°	4082.7	55.0
0°-40°	6108.7	82.3
0°-60°	7375.7	99.4
0°-90°	7420.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7420.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4932	4932	4932	4932	4932	
5°	5064	4953	4844	4957	5072	493
15°	5395	5003	4731	5052	5544	1518
25°	4907	4693	4630	4796	5083	2227
35°	3162	3206	3398	3363	3338	1966
45°	1274	1180	1136	1272	1385	1007
55°	287	287	298	291	287	282
65°	19	23	25	23	21	36
75°	0	2	6	2	0	4
85°	0	2	2	4	0	1
90°	0	0	0	0	0	



TEST NUMBER: P247410

CATALOG NUMBER: LSR8B80D010 EC8B80935 8LBW0WH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	4932.1	4932.1	4932.1	4932.1	4932.1	4932.1	4932.1	4932.1	4932.1
1°	4925.8	4932.1	4936.3	4934.2	4936.3	4934.2	4930.0	4921.6	4921.6
2°	4934.2	4942.6	4940.4	4936.3	4930.0	4930.0	4942.6	4925.8	4930.0
3°	4967.7	4967.7	4942.6	4919.6	4911.1	4919.6	4940.4	4953.0	4963.6
4°	5009.6	5001.2	4951.0	4898.6	4881.8	4902.8	4948.9	4988.6	5009.6
5°	5064.1	5038.9	4953.0	4873.4	4844.1	4875.5	4957.3	5032.6	5072.5
6°	5127.0	5089.2	4965.6	4846.2	4808.5	4852.5	4969.8	5085.1	5145.8
7°	5189.8	5129.0	4971.9	4825.2	4777.0	4837.8	4980.3	5143.7	5223.3
8°	5248.5	5166.7	4978.2	4806.4	4747.7	4810.6	4988.6	5196.1	5300.8
9°	5296.7	5202.4	4982.4	4791.8	4722.6	4793.8	4999.2	5242.2	5365.8
10°	5336.5	5229.6	4990.8	4783.3	4707.9	4785.5	5009.6	5282.0	5420.3
11°	5367.9	5248.5	4992.9	4779.2	4701.6	4779.2	5018.0	5321.8	5466.4
12°	5386.7	5265.2	4999.2	4781.2	4703.7	4785.5	5030.6	5338.6	5504.1
13°	5399.3	5271.5	5003.3	4787.5	4707.9	4789.6	5038.9	5353.3	5529.2
14°	5399.3	5267.4	5003.3	4793.8	4720.5	4798.0	5045.2	5363.7	5535.5
15°	5395.2	5265.2	5003.3	4804.3	4731.0	4806.4	5051.5	5370.0	5543.9
16°	5382.6	5252.6	5001.2	4810.6	4741.4	4814.8	5053.6	5365.8	5537.7
17°	5357.4	5246.4	4992.9	4816.9	4751.9	4823.2	5053.6	5355.3	5522.9
18°	5323.9	5202.4	4971.9	4810.6	4754.0	4821.1	5041.1	5328.1	5495.7
19°	5294.5	5177.3	4957.3	4806.4	4762.4	4827.4	5032.6	5309.2	5466.4
20°	5248.5	5135.3	4932.1	4793.8	4756.1	4814.8	5011.8	5275.7	5426.6
21°	5191.9	5087.1	4896.5	4772.9	4745.6	4798.0	4982.4	5229.6	5372.1
22°	5135.3	5032.6	4858.8	4751.9	4728.9	4783.3	4951.0	5181.4	5315.5
23°	5068.2	4971.9	4810.6	4716.3	4703.7	4749.8	4907.0	5129.0	5248.5
24°	4992.9	4900.7	4758.2	4676.5	4672.3	4714.2	4856.7	5059.9	5168.9
25°	4907.0	4825.2	4693.3	4626.2	4630.4	4666.0	4795.9	4982.4	5083.0
26°	4804.3	4728.9	4617.8	4565.5	4571.8	4607.4	4726.7	4892.3	4988.6
27°	4689.0	4619.9	4529.9	4492.1	4508.9	4540.3	4643.0	4793.8	4871.4
28°	4544.5	4490.0	4425.1	4408.3	4429.3	4464.9	4550.8	4674.4	4743.6
29°	4376.9	4347.5	4297.3	4305.6	4334.9	4364.3	4435.5	4525.6	4580.1
30°	4196.7	4184.1	4154.8	4188.3	4221.8	4247.0	4295.2	4355.9	4397.8
31°	4012.3	3997.7	4001.8	4056.3	4106.6	4123.3	4150.6	4179.9	4211.4
32°	3804.9	3800.7	3817.4	3897.1	3962.0	3970.4	3972.5	3980.8	3997.7
33°	3593.3	3587.0	3620.5	3719.0	3792.3	3798.6	3781.8	3773.4	3786.0
34°	3373.3	3373.3	3417.3	3520.0	3605.9	3612.1	3578.6	3574.4	3561.8
35°	3161.7	3155.4	3205.6	3302.0	3398.4	3400.5	3362.8	3339.7	3337.7
37.5°	2637.8	2627.4	2644.1	2694.4	2765.6	2803.4	2799.2	2790.8	2784.5
40°	2160.1	2135.0	2101.5	2080.5	2101.5	2179.0	2246.0	2277.5	2283.7
42.5°	1709.7	1674.1	1602.9	1544.1	1552.6	1623.8	1726.4	1797.7	1833.3
45°	1273.9	1238.2	1179.6	1135.6	1135.6	1185.9	1271.8	1345.1	1384.9
47.5°	909.3	886.3	852.7	833.9	846.4	867.4	915.6	970.1	986.8
50°	626.4	620.2	601.4	601.4	613.9	630.7	639.0	666.3	672.6
52.5°	437.9	427.4	429.5	431.6	442.1	444.2	456.7	450.4	461.0
55°	287.0	287.0	287.0	293.3	297.5	297.5	291.2	287.0	287.0
57.5°	182.3	178.1	180.2	184.4	184.4	178.1	167.7	165.5	155.1



TEST NUMBER: P247410

CATALOG NUMBER: LSR8B80D010 EC8B80935 8LBW0WH

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	108.9	108.9	111.1	111.1	108.9	102.6	92.2	83.8	79.6
62.5°	56.6	58.6	58.6	69.2	58.6	52.3	48.2	37.7	35.6
65°	18.9	23.0	23.0	23.0	25.2	23.0	23.0	21.0	21.0
67.5°	12.6	14.7	14.7	16.7	16.7	16.7	16.7	21.0	14.7
70°	10.4	10.4	12.6	14.7	14.7	16.7	12.6	10.4	16.7
72.5°	6.3	8.4	6.3	10.4	8.4	8.4	8.4	8.4	8.4
75°	0.0	4.2	2.1	0.0	6.3	4.2	2.1	4.2	0.0
77.5°	2.1	2.1	2.1	2.1	4.2	4.2	4.2	4.2	2.1
80°	2.1	2.1	4.2	2.1	2.1	4.2	0.0	0.0	8.4
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	0.0	2.1	2.1
85°	0.0	2.1	2.1	2.1	2.1	2.1	4.2	4.2	0.0
87.5°	0.0	2.1	0.0	2.1	0.0	0.0	0.0	4.2	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)