

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: P250130

Luminaire Tested: **LSR8B120D010 EC8B120830 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250130
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: LSR8B120D010 EC8B120830 8LBM0WH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11893.0 lumens
Efficiency: N/A
Efficacy: 100.5 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

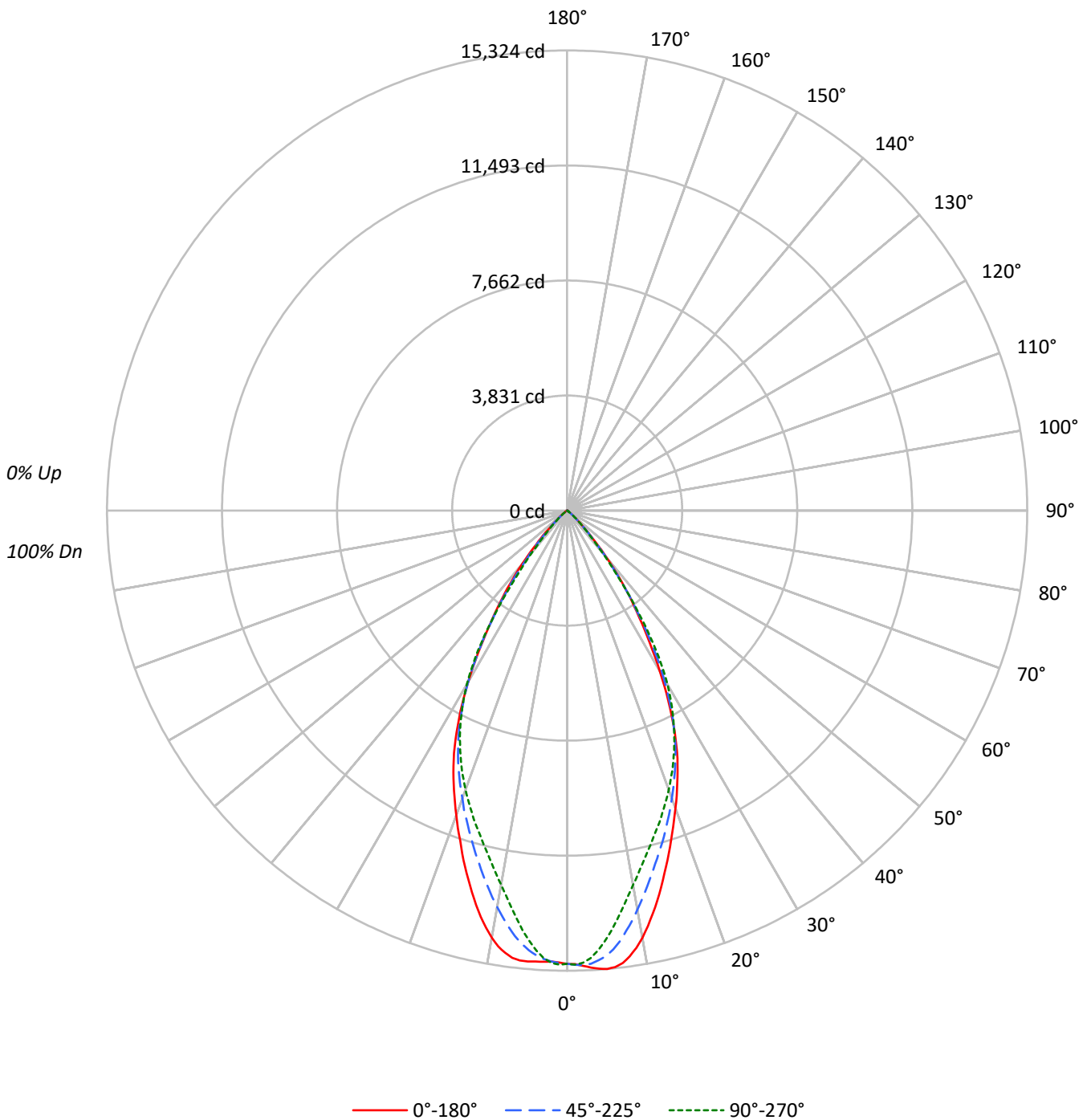
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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	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°	465422	465422	465422
5°	474356	445618	466630
10°	452261	396419	452149
15°	399364	357544	406158
20°	346090	324534	354277
25°	292417	287419	303151
30°	219779	237942	234805
35°	147121	155550	159555
40°	82428	70754	94540
45°	33125	29127	39366
50°	11442	11091	13557
55°	3156	3753	3554
60°	1813	2263	2035
65°	1605	1335	1065
70°	0	992	667
75°	0	0	0
80°	0	0	657
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1370.2	11.5
10°-20°	3314.0	27.9
20°-30°	3884.1	32.7
30°-40°	2555.5	21.5
40°-50°	666.9	5.6
50°-60°	82.0	0.7
60°-70°	17.0	0.1
70°-80°	3.2	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°	8568.3	72.0
0°-40°	11123.8	93.5
0°-60°	11872.7	99.8
0°-90°	11893.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11893.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	15093	15093	15093	15093	15093	
5°	15324	14888	14396	14693	15075	###
15°	12510	11802	11200	11802	12723	3487
25°	8594	8510	8448	8591	8910	3874
35°	3908	3996	4132	4172	4238	2447
45°	760	716	668	774	903	681
55°	59	62	70	70	66	78
65°	22	18	18	15	15	15
75°	0	4	0	0	0	2
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°	15093.3	15093.3	15093.3	15093.3	15093.3	15093.3	15093.3	15093.3	15093.3
1°	15104.2	15126.3	15133.6	15155.7	15122.6	15100.6	15071.3	15049.2	15052.9
2°	15170.3	15181.4	15141.0	15126.3	15067.6	15049.2	15027.2	15023.5	15027.2
3°	15240.1	15218.0	15111.6	15012.6	14924.5	14913.4	14953.8	15012.6	15045.5
4°	15295.1	15236.4	15012.6	14829.0	14689.6	14678.6	14840.1	14990.5	15052.9
5°	15324.5	15218.0	14887.7	14579.5	14396.1	14465.7	14693.3	14961.1	15074.9
6°	15284.1	15126.3	14696.9	14286.0	14076.8	14168.5	14502.5	14891.4	15060.2
7°	15181.4	14979.5	14451.1	13966.7	13709.8	13852.9	14278.6	14774.0	15005.2
8°	14990.5	14748.3	14139.2	13596.0	13342.8	13504.3	14003.4	14605.2	14873.1
9°	14740.9	14473.1	13830.9	13258.4	12986.9	13177.7	13717.2	14381.3	14689.6
10°	14443.7	14157.5	13489.6	12906.2	12660.3	12840.1	13408.9	14120.8	14440.1
11°	14095.1	13819.9	13148.3	12575.9	12341.0	12517.2	13100.7	13808.9	14153.8
12°	13717.2	13463.9	12799.8	12256.6	12036.5	12205.3	12770.4	13485.9	13827.2
13°	13339.1	13085.9	12462.2	11948.4	11746.5	11908.0	12447.4	13133.7	13474.9
14°	12931.8	12700.6	12124.5	11654.8	11471.3	11625.4	12117.2	12777.7	13100.7
15°	12509.8	12326.3	11801.6	11372.2	11199.8	11346.5	11801.6	12410.7	12722.6
16°	12113.5	11944.7	11489.6	11093.3	10950.3	11067.6	11482.4	12043.8	12341.0
17°	11709.8	11555.7	11177.7	10818.1	10689.7	10803.5	11155.7	11673.2	11941.0
18°	11306.2	11177.7	10836.5	10528.3	10414.5	10517.2	10832.8	11298.8	11541.0
19°	10931.9	10814.4	10524.6	10264.0	10161.3	10253.0	10550.3	10939.2	11181.4
20°	10546.6	10451.1	10197.9	9985.1	9889.7	9974.1	10205.3	10583.3	10796.1
21°	10175.9	10091.5	9871.4	9691.5	9614.5	9684.2	9897.0	10238.3	10425.4
22°	9790.6	9742.9	9544.8	9394.3	9342.9	9386.9	9581.4	9875.0	10051.2
23°	9412.6	9368.6	9218.1	9093.4	9049.3	9093.4	9265.9	9530.1	9687.9
24°	9031.0	8983.3	8873.2	8792.4	8755.8	8792.4	8939.2	9163.1	9313.6
25°	8594.4	8587.0	8510.0	8465.9	8447.5	8487.9	8590.7	8785.2	8909.9
26°	8175.9	8153.9	8131.9	8124.6	8128.3	8150.3	8234.7	8381.5	8480.6
27°	7662.2	7695.3	7728.2	7772.3	7787.0	7805.4	7845.7	7952.1	8025.5
28°	7170.5	7232.9	7313.6	7401.7	7442.1	7442.1	7445.7	7504.4	7566.8
29°	6682.5	6748.5	6876.9	7009.0	7064.1	7056.7	7027.3	7053.0	7089.7
30°	6172.4	6256.8	6429.2	6601.7	6682.5	6653.1	6598.0	6572.4	6594.4
31°	5673.3	5757.7	5948.5	6135.6	6242.0	6209.1	6113.6	6095.3	6106.3
32°	5196.2	5280.6	5456.7	5654.9	5776.0	5732.0	5632.9	5603.5	5607.2
33°	4733.8	4799.9	4961.4	5144.9	5243.9	5232.9	5152.2	5115.5	5119.1
34°	4297.2	4352.2	4473.3	4612.8	4708.1	4704.5	4645.7	4649.4	4660.5
35°	3908.2	3937.6	3996.2	4073.3	4132.1	4165.0	4172.4	4201.7	4238.5
37.5°	2954.1	2965.1	2895.4	2818.2	2803.6	2899.1	3064.2	3207.3	3262.3
40°	2047.7	2022.0	1933.9	1798.1	1757.7	1864.2	2073.3	2275.2	2348.6
42.5°	1273.4	1262.4	1207.3	1104.6	1067.9	1130.3	1288.0	1442.2	1515.6
45°	759.6	744.9	715.5	675.2	667.9	693.5	774.3	862.3	902.7
47.5°	436.7	433.1	414.7	400.0	396.3	414.7	451.4	502.7	513.8
50°	238.5	234.9	231.2	231.2	231.2	242.2	260.6	275.2	282.6
52.5°	117.4	121.1	117.4	121.1	124.8	132.1	128.4	143.1	143.1
55°	58.7	55.0	62.4	69.8	69.8	69.8	69.8	69.8	66.1
57.5°	44.0	47.7	40.4	44.0	40.4	40.4	36.7	40.4	44.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	29.4	25.7	29.4	33.0	36.7	33.0	25.7	29.4	33.0
62.5°	14.6	14.6	14.6	22.0	33.0	25.7	22.0	18.3	18.3
65°	22.0	14.6	18.3	22.0	18.3	18.3	14.6	18.3	14.6
67.5°	11.0	18.3	11.0	7.4	11.0	14.6	11.0	7.4	7.4
70°	0.0	3.7	3.7	11.0	11.0	11.0	11.0	7.4	7.4
72.5°	3.7	3.7	3.7	7.4	3.7	7.4	3.7	3.7	7.4
75°	0.0	0.0	3.7	3.7	0.0	3.7	0.0	0.0	0.0
77.5°	3.7	0.0	3.7	3.7	0.0	0.0	0.0	3.7	0.0
80°	0.0	0.0	3.7	0.0	0.0	0.0	0.0	0.0	3.7
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)