

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: P247256

Luminaire Tested: **LSR8B100D010 EC8B100850 8LBW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247256
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-59)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B100850 8LBW0WMH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10859.0 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.14 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

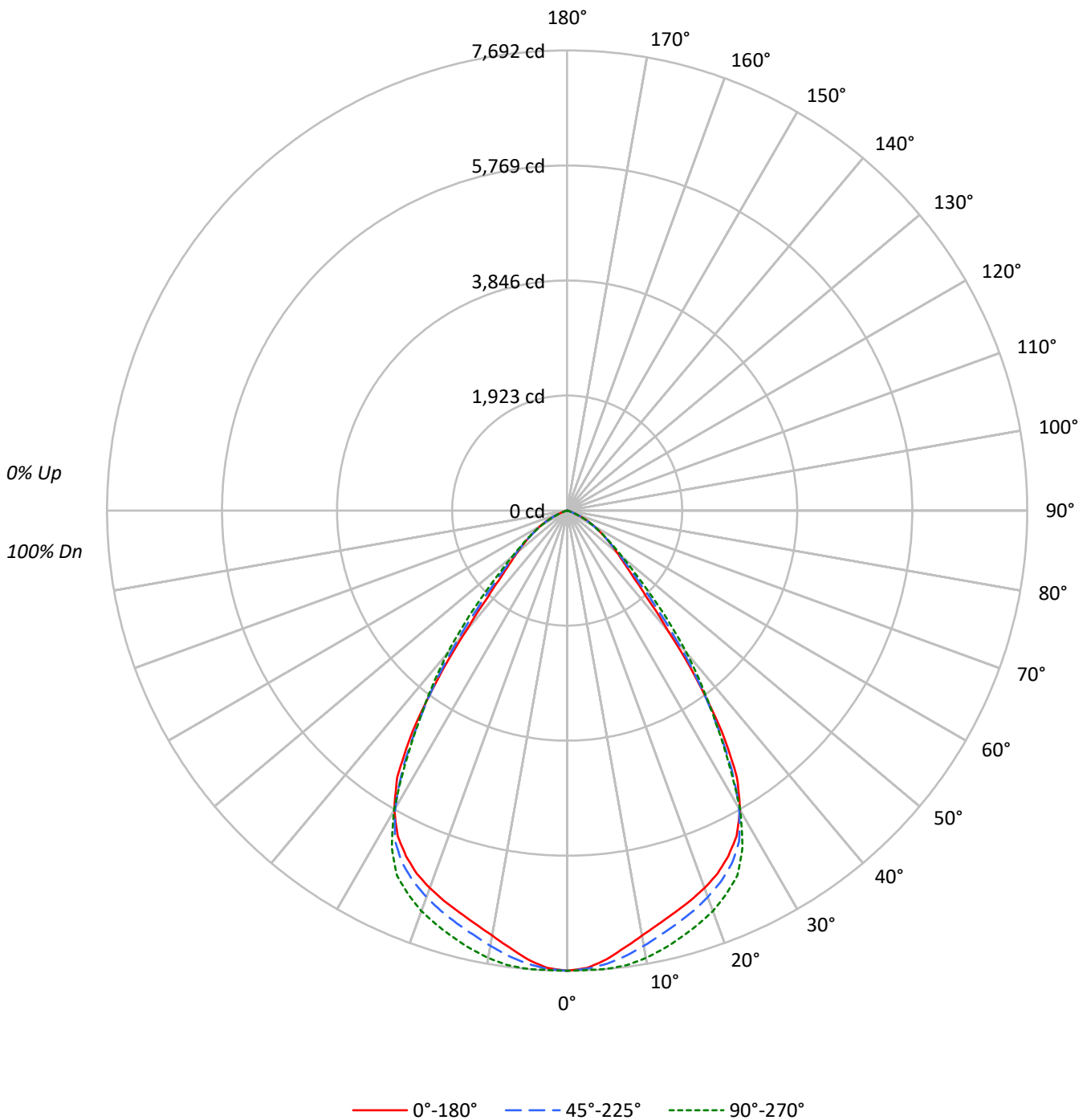
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83					83			
3	99	91	85	81	97	90	84	80	87	83	79	85	81	78	82	79	76	75					75			
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	72	69	68					68			
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61					61			
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56					56			
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51					51			
8	72	61	54	50	71	61	54	49	59	54	49	58	53	49	57	52	49	47					47			
9	68	57	50	46	67	57	50	46	56	50	45	55	49	45	54	49	45	44					44			
10	65	53	47	42	63	53	47	42	52	46	42	51	46	42	50	45	42	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	237202	237202	237202
5°	233137	235378	237984
10°	225860	231339	237771
15°	222039	227922	235696
20°	220289	225602	233766
25°	216805	221596	229030
30°	205704	204860	206174
35°	169561	163564	163169
40°	106234	115718	125311
45°	67333	74851	84266
50°	51844	53864	57654
55°	41042	40902	42386
60°	31983	31336	31169
65°	21510	20649	20073
70°	9854	9016	8547
75°	4706	4230	3920
80°	2344	2095	2095
85°	1380	1380	920



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	719.4	6.6
10°-20°	2020.0	18.6
20°-30°	2975.0	27.4
30°-40°	2705.9	24.9
40°-50°	1400.7	12.9
50°-60°	701.8	6.5
60°-70°	285.8	2.6
70°-80°	45.6	0.4
80°-90°	4.9	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°	5714.4	52.6
0°-40°	8420.2	77.5
0°-60°	10522.7	96.9
0°-90°	10859.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10859.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7692	7692	7692	7692	7692	
5°	7532	7551	7604	7662	7688	708
15°	6955	7003	7140	7304	7383	1966
25°	6372	6416	6513	6662	6731	2917
35°	4504	4475	4345	4308	4334	2716
45°	1544	1598	1716	1849	1932	1272
55°	763	761	761	775	788	693
65°	295	294	283	279	275	297
75°	40	38	36	33	33	50
85°	4	4	4	3	3	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7692.3	7692.3	7692.3	7692.3	7692.3
2.5°	7651.5	7655.4	7666.0	7677.8	7687.0
5°	7531.7	7551.4	7604.1	7662.0	7688.3
7.5°	7368.5	7411.9	7508.0	7615.9	7663.3
10°	7213.2	7263.2	7388.2	7533.0	7593.6
12.5°	7076.3	7125.0	7260.5	7422.5	7497.5
15°	6955.2	7002.6	7139.5	7304.0	7383.0
17.5°	6840.7	6884.1	7014.4	7178.9	7259.2
20°	6713.0	6751.2	6874.9	7034.2	7123.7
22.5°	6568.2	6597.1	6713.0	6864.4	6943.3
25°	6372.1	6415.5	6512.9	6661.6	6731.4
27.5°	6132.5	6160.1	6227.3	6318.1	6347.1
30°	5777.1	5775.8	5753.4	5753.4	5790.3
32.5°	5283.5	5220.3	5113.7	5049.2	5043.9
35°	4504.3	4475.3	4345.0	4308.2	4334.5
37.5°	3553.9	3573.7	3606.6	3659.2	3706.6
40°	2639.1	2689.1	2874.7	3040.6	3113.0
42.5°	1969.1	2033.6	2223.2	2404.8	2493.0
45°	1544.0	1598.0	1716.4	1849.4	1932.3
47.5°	1276.8	1304.4	1367.6	1457.1	1499.2
50°	1080.7	1093.8	1122.8	1168.8	1201.8
52.5°	917.4	912.2	928.0	958.2	970.1
55°	763.4	760.8	760.8	775.3	788.4
57.5°	633.1	629.2	621.3	627.9	631.8
60°	518.6	514.7	508.1	506.8	505.4
62.5°	417.3	410.7	397.5	394.9	394.9
65°	294.8	293.5	283.0	279.0	275.1
67.5°	183.0	177.7	168.5	160.6	159.3
70°	109.3	107.9	100.0	94.8	94.8
72.5°	65.8	63.2	59.2	56.6	55.3
75°	39.5	38.2	35.5	32.9	32.9
77.5°	23.7	22.4	21.1	19.7	19.7
80°	13.2	13.2	11.8	11.8	11.8
82.5°	7.9	7.9	6.6	6.6	6.6
85°	3.9	3.9	3.9	2.6	2.6
87.5°	1.3	1.3	1.3	1.3	1.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)