

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: P247160

Luminaire Tested: **LSR8B100D010 EC8B100850 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247160
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-58)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B100850 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11101.0 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

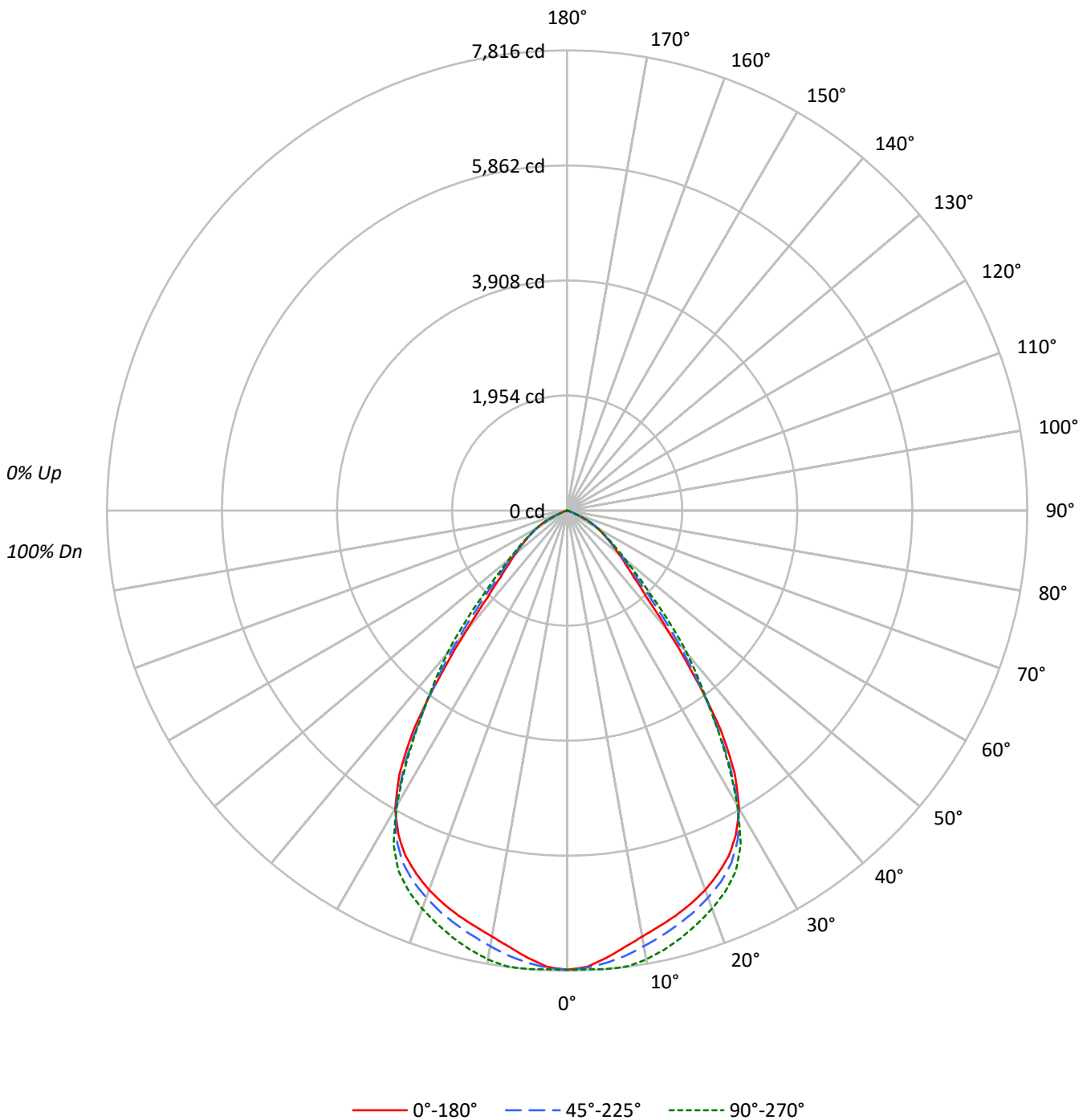
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	97	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82					82			
3	99	91	85	81	97	90	84	80	87	82	79	85	81	77	82	79	76	74					74			
4	93	84	77	72	91	82	76	72	80	75	71	78	74	70	76	72	69	67					67			
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61					61			
6	81	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	57	56					56			
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51					51			
8	72	61	54	49	71	60	54	49	59	53	49	58	53	49	57	52	49	47					47			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43					43			
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	240492	240492	240492
5°	236071	238638	241940
10°	230024	235257	242386
15°	227418	232417	239645
20°	225041	229576	236142
25°	220612	224597	230241
30°	208000	207064	205800
35°	171097	165202	164260
40°	107136	118210	127802
45°	69914	77951	86390
50°	55126	57778	61568
55°	44934	45713	47127
60°	36775	36529	36368
65°	23816	23144	21897
70°	8186	7591	7005
75°	2824	2669	2514
80°	1172	941	941
85°	460	460	460



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	730.6	6.6
10°-20°	2058.4	18.5
20°-30°	3010.4	27.1
30°-40°	2727.8	24.6
40°-50°	1450.4	13.1
50°-60°	774.1	7.0
60°-70°	315.7	2.8
70°-80°	31.9	0.3
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°	5799.3	52.2
0°-40°	8527.1	76.8
0°-60°	10751.6	96.9
0°-90°	11101.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11101.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7799	7799	7799	7799	7799	
5°	7626	7646	7709	7779	7816	719
15°	7124	7164	7280	7430	7507	2010
25°	6484	6512	6601	6714	6767	2963
35°	4545	4482	4388	4356	4364	2731
45°	1603	1651	1788	1930	1981	1311
55°	836	834	850	862	877	758
65°	326	325	317	299	300	325
75°	24	24	22	21	21	34
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7799.0	7799.0	7799.0	7799.0	7799.0
2.5°	7756.8	7755.5	7770.0	7787.1	7796.3
5°	7626.5	7646.3	7709.4	7779.2	7816.1
7.5°	7479.1	7516.0	7625.2	7745.0	7809.5
10°	7346.2	7393.5	7513.3	7670.0	7741.0
12.5°	7231.6	7277.7	7398.8	7559.4	7637.1
15°	7123.7	7164.5	7280.3	7430.4	7506.7
17.5°	6998.7	7038.1	7150.0	7292.2	7358.0
20°	6857.8	6890.7	6996.0	7129.0	7196.1
22.5°	6682.8	6718.3	6824.9	6947.3	7010.5
25°	6484.0	6511.6	6601.1	6714.3	6767.0
27.5°	6207.6	6232.6	6285.2	6345.8	6385.3
30°	5841.6	5835.1	5815.3	5796.9	5779.8
32.5°	5302.0	5238.8	5142.7	5082.2	5084.8
35°	4545.1	4481.9	4388.5	4355.6	4363.5
37.5°	3551.3	3598.7	3636.9	3700.1	3730.3
40°	2661.5	2743.1	2936.6	3105.1	3174.9
42.5°	2000.7	2081.0	2283.7	2461.4	2557.5
45°	1603.2	1650.6	1787.5	1929.7	1981.0
47.5°	1342.6	1363.7	1442.6	1533.5	1578.2
50°	1149.1	1162.3	1204.4	1254.4	1283.4
52.5°	984.6	989.8	1010.9	1039.9	1058.3
55°	835.8	834.5	850.3	862.2	876.6
57.5°	706.8	705.5	705.5	709.5	718.7
60°	596.3	592.3	592.3	587.1	589.7
62.5°	485.7	481.8	472.5	466.0	463.3
65°	326.4	325.1	317.2	298.8	300.1
67.5°	169.8	168.5	160.6	155.3	152.7
70°	90.8	88.2	84.2	80.3	77.7
72.5°	46.1	44.8	43.4	40.8	40.8
75°	23.7	23.7	22.4	21.1	21.1
77.5°	11.8	11.8	10.5	10.5	10.5
80°	6.6	6.6	5.3	5.3	5.3
82.5°	2.6	2.6	2.6	2.6	2.6
85°	1.3	1.3	1.3	1.3	1.3
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)