

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: P247440

Luminaire Tested: **LSR8B100D010 EC8B100835 8LBS0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247440  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-85)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B100D010 EC8B100835 8LBS0WH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3500 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12127.0 lumens  
Efficiency: N/A  
Efficacy: 114.1 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.24  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

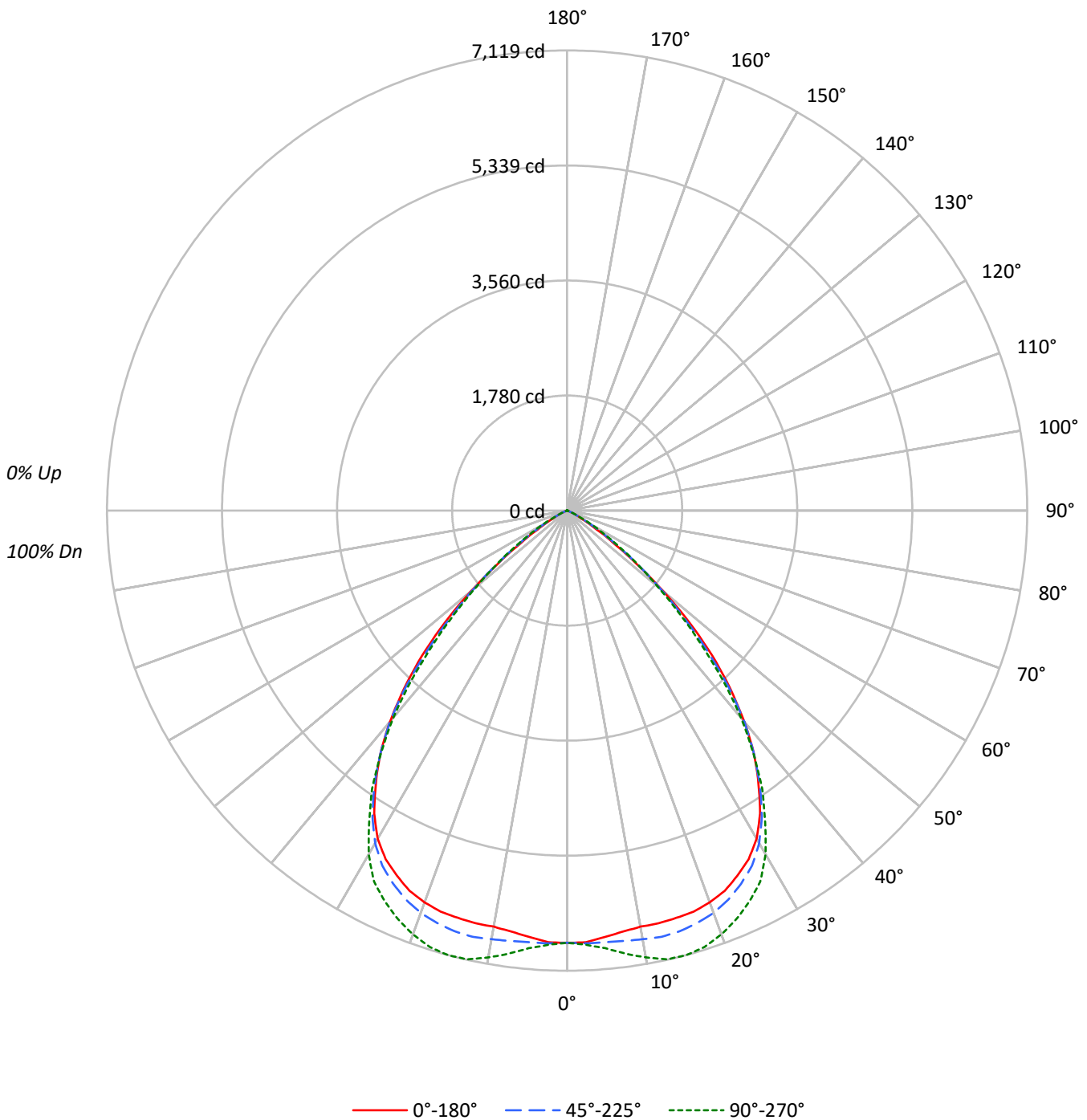
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P247440

CATALOG NUMBER: LSR8B100D010 EC8B100835 8LBS0WH

### Luminous Intensity Polar Plot





TEST NUMBER: P247440

CATALOG NUMBER: LSR8B100D010 EC8B100835 8LBS0WH

**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	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82					82			
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73					73			
4	92	83	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	66					66			
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59					59			
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54					54			
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49					49			
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44					44			
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	206175	206175	206175
5°	205031	207485	210380
10°	204674	210818	219770
15°	208260	215063	227261
20°	211646	217316	228916
25°	212011	216700	226958
30°	208780	211507	218543
35°	194308	195580	198027
40°	171735	171526	168443
45°	138333	133178	128019
50°	92890	90457	87402
55°	47160	51213	54353
60°	19316	23645	27568
65°	7209	7683	9011
70°	469	469	352
75°	929	1549	2014
80°	231	0	0
85°	920	0	920



TEST NUMBER: P247440

CATALOG NUMBER: LSR8B100D010 EC8B100835 8LBS0WH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	642.0	5.3
10°-20°	1913.4	15.8
20°-30°	2944.4	24.3
30°-40°	3224.9	26.6
40°-50°	2344.8	19.3
50°-60°	902.0	7.4
60°-70°	141.3	1.2
70°-80°	10.1	0.1
80°-90°	4.1	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°	5499.8	45.4
0°-40°	8724.7	71.9
0°-60°	11971.5	98.7
0°-90°	12127.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12127.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6686	6686	6686	6686	6686	
5°	6624	6658	6703	6767	6796	629
15°	6524	6574	6737	6986	7119	1846
25°	6231	6269	6369	6557	6670	2866
35°	5162	5162	5196	5228	5260	3205
45°	3172	3140	3054	2976	2936	2412
55°	877	901	953	984	1011	857
65°	99	103	105	120	124	121
75°	8	17	13	17	17	10
85°	3	0	0	0	3	6
90°	0	0	0	0	0	



TEST NUMBER: P247440

CATALOG NUMBER: LSR8B100D010 EC8B100835 8LBS0WH

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6686.1	6686.1	6686.1	6686.1	6686.1
2.5°	6684.8	6695.2	6701.7	6716.0	6722.5
5°	6623.7	6657.5	6703.0	6766.6	6796.5
7.5°	6570.4	6617.2	6714.7	6852.4	6913.5
10°	6536.6	6587.3	6732.8	6920.0	7018.7
12.5°	6540.5	6596.4	6753.6	6978.5	7111.0
15°	6523.6	6574.3	6736.7	6986.3	7118.8
17.5°	6504.1	6545.7	6690.0	6934.3	7077.2
20°	6449.6	6484.6	6622.4	6843.3	6975.9
22.5°	6367.7	6400.2	6514.5	6719.9	6842.0
25°	6231.2	6268.9	6369.0	6557.4	6670.5
27.5°	6079.2	6101.3	6193.5	6365.1	6472.9
30°	5863.5	5871.3	5940.1	6072.7	6137.7
32.5°	5555.5	5554.2	5606.2	5672.4	5697.1
35°	5161.7	5161.7	5195.5	5228.0	5260.5
37.5°	4752.4	4747.2	4751.1	4758.9	4731.6
40°	4266.3	4256.0	4261.1	4214.4	4184.5
42.5°	3733.5	3742.6	3690.7	3607.5	3576.3
45°	3172.1	3139.7	3053.9	2975.9	2935.6
47.5°	2575.7	2525.0	2443.1	2362.5	2356.0
50°	1936.3	1938.9	1885.6	1840.1	1821.9
52.5°	1343.7	1358.0	1385.3	1390.5	1397.0
55°	877.2	900.6	952.6	983.7	1011.0
57.5°	536.7	579.6	623.8	682.3	687.4
60°	313.2	334.0	383.4	427.5	447.0
62.5°	176.7	196.2	206.6	232.6	239.1
65°	98.8	102.7	105.3	119.6	123.5
67.5°	59.8	62.4	65.0	63.7	66.3
70°	5.2	11.7	5.2	6.5	3.9
72.5°	22.1	14.3	15.6	11.7	7.8
75°	7.8	16.9	13.0	16.9	16.9
77.5°	5.2	3.9	6.5	7.8	6.5
80°	1.3	0.0	0.0	0.0	0.0
82.5°	11.7	10.4	6.5	10.4	3.9
85°	2.6	0.0	0.0	0.0	2.6
87.5°	7.8	3.9	3.9	9.1	2.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)