

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: P246956

Luminaire Tested: **LSR8B100D010 EC8B100830 8LBM0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246956  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-81)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B100D010 EC8B100830 8LBMOLI  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10749.0 lumens  
Efficiency: N/A  
Efficacy: 101.1 lumens/watt  
Spacing Criteria (0/90/45): 0.67 / 0.67 / 0.75  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

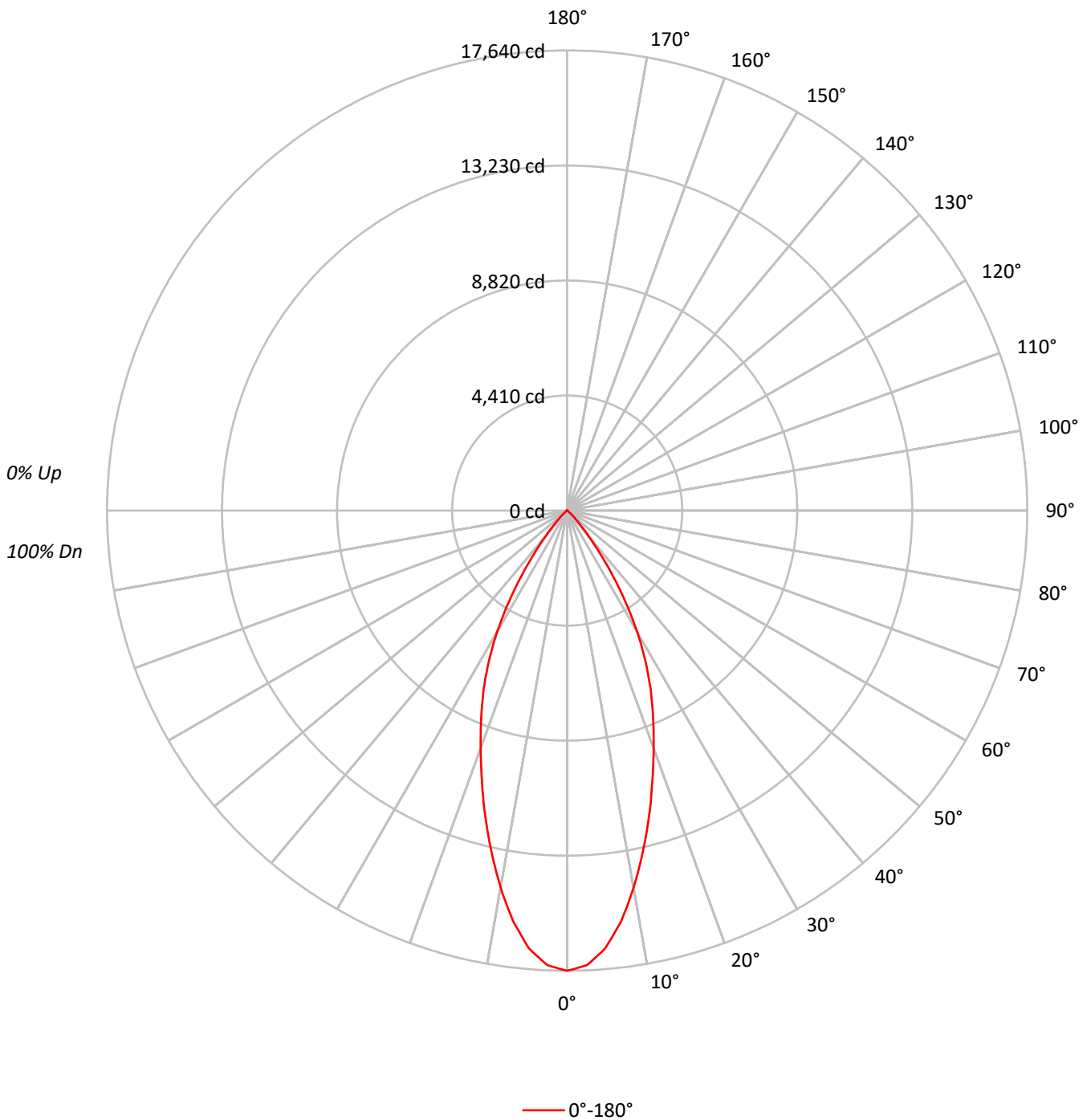
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P246956

CATALOG NUMBER: LSR8B100D010 EC8B100830 8LBM0LI

### Luminous Intensity Polar Plot





TEST NUMBER: P246956

CATALOG NUMBER: LSR8B100D010 EC8B100830 8LBM0LI

**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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	100	97	107	102	99	96	99	96	94	96	94	92	94	92	90	88
3	104	98	93	89	102	96	92	89	94	90	87	91	88	86	89	87	85	83
4	99	92	87	83	97	91	86	82	89	85	81	87	83	80	85	82	79	78
5	94	87	81	77	93	86	81	77	84	79	76	82	78	75	81	77	75	73
6	90	82	76	72	89	81	76	72	79	75	71	78	74	71	77	73	70	69
7	86	77	72	68	85	77	71	68	75	71	67	74	70	67	73	69	67	65
8	82	73	68	64	81	73	67	64	72	67	63	71	66	63	70	66	63	62
9	79	70	64	60	78	69	64	60	68	63	60	67	63	60	67	63	60	58
10	75	66	61	57	74	66	61	57	65	60	57	64	60	57	64	60	57	55

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

	0°
0°	543937
5°	521258
10°	459632
15°	387357
20°	318046
25°	257780
30°	190838
35°	114871
40°	51159
45°	19890
50°	7134
55°	2081
60°	1462
65°	1094
70°	108
75°	596
80°	0
85°	1769



TEST NUMBER: P246956

CATALOG NUMBER: LSR8B100D010 EC8B100830 8LBM0LI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1537.4	14.3
10°-20°	3370.2	31.4
20°-30°	3437.1	32.0
30°-40°	1925.0	17.9
40°-50°	410.5	3.8
50°-60°	50.8	0.5
60°-70°	13.2	0.1
70°-80°	3.1	0.0
80°-90°	1.7	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°	8344.6	77.6
0°-40°	10269.6	95.5
0°-60°	10730.9	99.8
0°-90°	10749.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10749.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	17640	
5°	16840	###
15°	12134	3370
25°	7576	3437
35°	3052	1925
45°	456	411
55°	39	51
65°	15	13
75°	5	3
85°	5	2
90°	0	



TEST NUMBER: P246956

CATALOG NUMBER: LSR8B100D010 EC8B100830 8LBM0LI

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	17639.5
2.5°	17440.8
5°	16839.7
7.5°	15872.5
10°	14679.1
12.5°	13398.3
15°	12133.7
17.5°	10861.6
20°	9692.0
22.5°	8603.5
25°	7576.4
27.5°	6498.0
30°	5359.6
32.5°	4169.9
35°	3051.5
37.5°	2044.4
40°	1270.9
42.5°	759.8
45°	456.1
47.5°	253.7
50°	148.7
52.5°	78.7
55°	38.7
57.5°	27.5
60°	23.7
62.5°	11.2
65°	15.0
67.5°	15.0
70°	1.2
72.5°	3.7
75°	5.0
77.5°	2.5
80°	0.0
82.5°	1.2
85°	5.0
87.5°	0.0
90°	0.0

(END OF REPORT)