

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: P245688

Luminaire Tested: **LSR8B10D010 EC8B10840 8LBM0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245688  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201629)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B10D010 EC8B10840 8LBM0GPH  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 4000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 988.0 lumens  
Efficiency: N/A  
Efficacy: 96.9 lumens/watt  
Spacing Criteria (0/90/45): 0.82 / 0.82 / 0.87  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

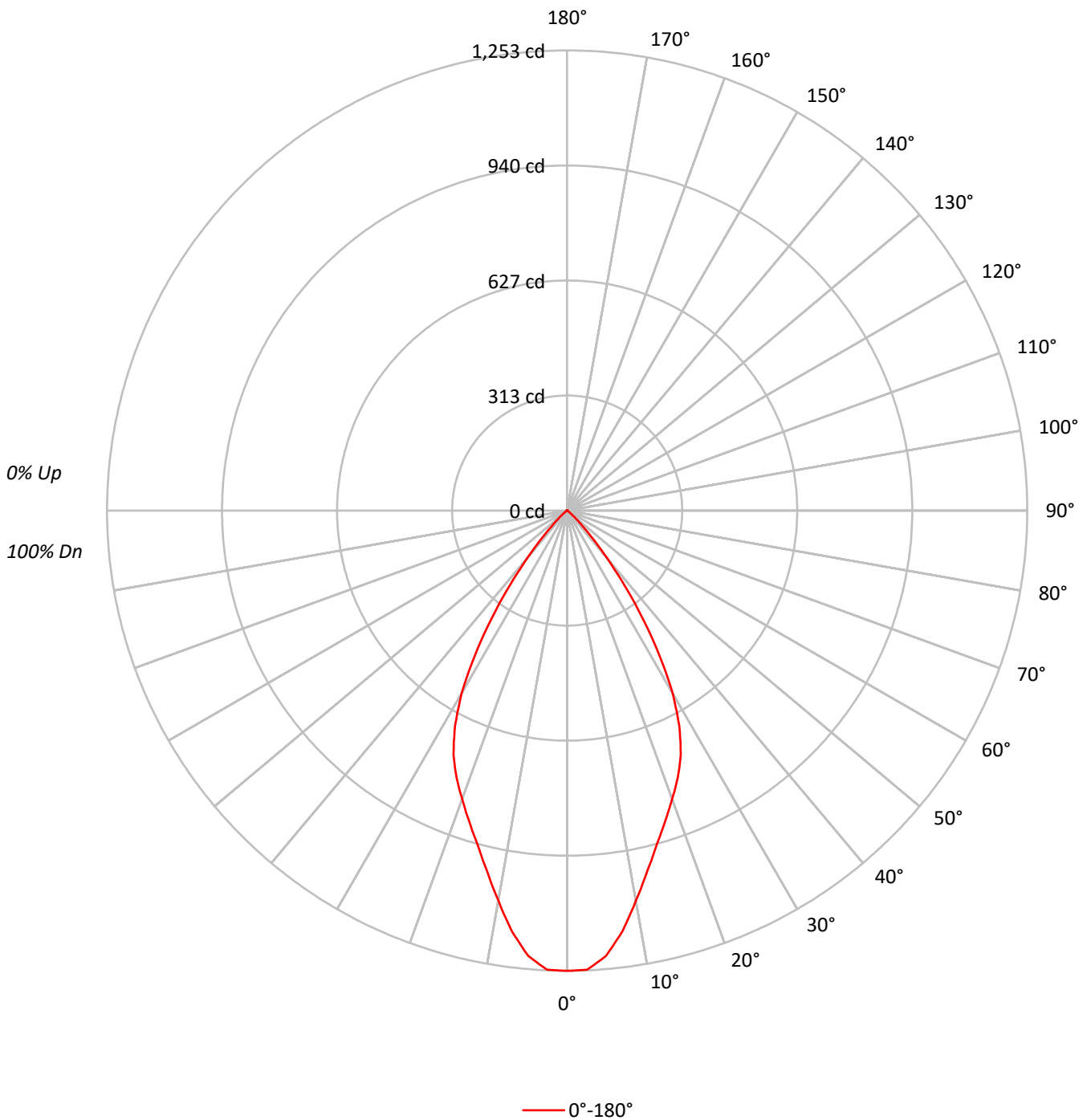
Input Watts (W): 10.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P245688

CATALOG NUMBER: LSR8B10D010 EC8B10840 8LBM0GPH

### Luminous Intensity Polar Plot





TEST NUMBER: P245688

CATALOG NUMBER: LSR8B10D010 EC8B10840 8LBM0GPH

**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	108	106	111	109	107	105	105	103	101		101	100	98		98	96	95	94
2	108	103	99	96	106	102	98	95	98	95	93		95	93	91		93	91	89	87
3	103	96	92	88	101	95	91	87	92	89	86		90	87	84		88	85	83	81
4	98	90	85	81	96	89	84	80	87	83	79		85	81	78		83	80	77	76
5	93	85	79	75	91	84	78	74	82	77	74		80	76	73		79	75	72	71
6	88	79	73	69	87	79	73	69	77	72	69		76	71	68		74	71	68	66
7	84	75	69	65	82	74	68	64	73	68	64		72	67	64		70	66	63	62
8	80	70	64	60	79	70	64	60	69	64	60		68	63	60		67	63	59	58
9	76	66	61	57	75	66	60	57	65	60	56		64	59	56		63	59	56	55
10	72	63	57	53	71	62	57	53	62	57	53		61	56	53		60	56	53	51

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

	0°
0°	38644
5°	37665
10°	33773
15°	30073
20°	27440
25°	24919
30°	20435
35°	13458
40°	6706
45°	2494
50°	758
55°	86
60°	49
65°	0
70°	36
75°	143
80°	0
85°	142



TEST NUMBER: P245688

CATALOG NUMBER: LSR8B10D010 EC8B10840 8LBM0GPH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.6	11.3
10°-20°	265.3	26.8
20°-30°	330.4	33.4
30°-40°	223.0	22.6
40°-50°	52.7	5.3
50°-60°	3.8	0.4
60°-70°	0.6	0.1
70°-80°	0.5	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°	707.3	71.6
0°-40°	930.2	94.2
0°-60°	986.7	99.9
0°-90°	988.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	988.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1253	
5°	1217	112
15°	942	265
25°	732	330
35°	358	223
45°	57	53
55°	2	4
65°	0	1
75°	1	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	0



TEST NUMBER: P245688

CATALOG NUMBER: LSR8B10D010 EC8B10840 8LBM0GPH

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1253.2
2.5°	1251.3
5°	1216.8
7.5°	1154.8
10°	1078.6
12.5°	1006.0
15°	942.0
17.5°	886.8
20°	836.2
22.5°	787.1
25°	732.4
27.5°	661.1
30°	573.9
32.5°	468.5
35°	357.5
37.5°	255.8
40°	166.6
42.5°	99.7
45°	57.2
47.5°	32.0
50°	15.8
52.5°	7.3
55°	1.6
57.5°	0.4
60°	0.8
62.5°	1.2
65°	0.0
67.5°	0.8
70°	0.4
72.5°	0.4
75°	1.2
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.4
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.0
105°	0.0
107.5°	0.0
110°	0.0



TEST NUMBER: P245688

CATALOG NUMBER: LSR8B10D010 EC8B10840 8LBM0GPH

**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.0
125°	0.0
127.5°	0.0
130°	0.0
132.5°	0.0
135°	0.0
137.5°	0.0
140°	0.0
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)