

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: P245528

Luminaire Tested: **LSR8B20D010 EC8B20827 8LBW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245528  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-46)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B20D010 EC8B20827 8LBW0GPH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 2700 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1836.0 lumens  
Efficiency: N/A  
Efficacy: 86.2 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

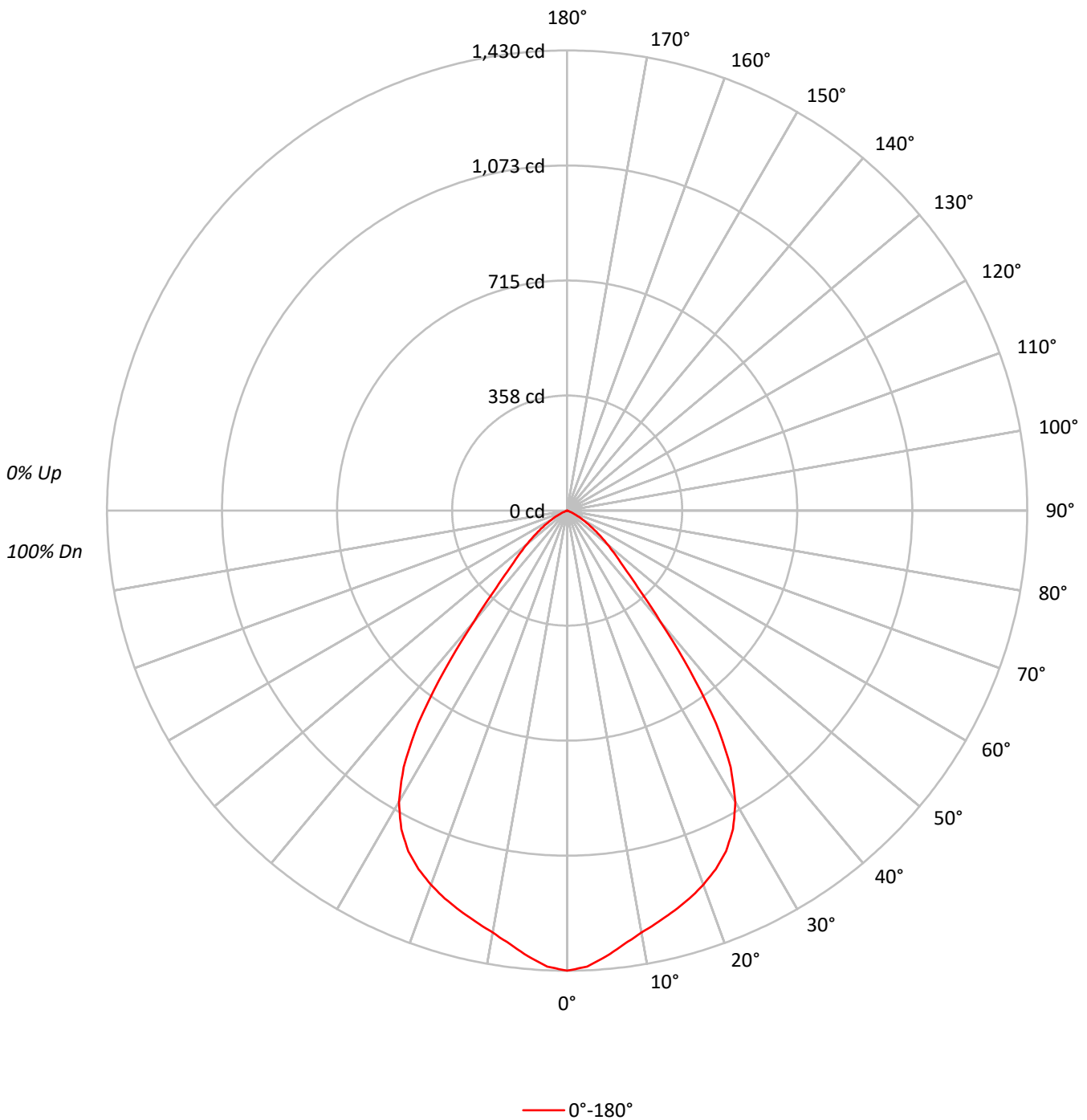
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P245528

CATALOG NUMBER: LSR8B20D010 EC8B20827 8LBW0GPH

### Luminous Intensity Polar Plot





TEST NUMBER: P245528

CATALOG NUMBER: LSR8B20D010 EC8B20827 8LBW0GPH

**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	113	110	107	104	110	108	105	103	103	101	100		100	98	97		96	95	94	92
2	106	101	96	92	104	99	95	91	96	92	89		93	90	87		90	88	86	84
3	100	93	87	83	98	91	86	82	89	84	81		86	82	79		84	81	78	76
4	94	85	79	74	92	84	78	74	82	77	73		80	76	72		78	74	71	70
5	88	79	72	67	87	78	72	67	76	71	66		74	70	66		73	69	65	64
6	83	73	66	61	82	72	66	61	71	65	61		69	64	60		68	63	60	58
7	78	68	61	56	77	67	61	56	66	60	56		65	59	56		63	59	55	54
8	74	63	56	52	73	63	56	52	61	56	51		60	55	51		59	55	51	49
9	70	59	52	48	69	58	52	48	57	52	48		57	51	47		56	51	47	46
10	66	55	49	44	65	55	49	44	54	48	44		53	48	44		52	47	44	43

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

	0°
0°	44084
5°	43042
10°	41692
15°	41090
20°	40606
25°	39733
30°	37216
35°	30390
40°	18142
45°	10898
50°	7853
55°	5344
60°	3349
65°	1642
70°	415
75°	155
80°	124
85°	0



TEST NUMBER: P245528

CATALOG NUMBER: LSR8B20D010 EC8B20827 8LBW0GPH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.8	7.1
10°-20°	363.2	19.8
20°-30°	533.4	29.1
30°-40°	483.6	26.3
40°-50°	207.0	11.3
50°-60°	91.6	5.0
60°-70°	24.4	1.3
70°-80°	1.9	0.1
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°	1027.4	56.0
0°-40°	1511.0	82.3
0°-60°	1809.6	98.6
0°-90°	1836.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1836.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1430	
5°	1390	131
15°	1287	363
25°	1168	533
35°	807	484
45°	250	207
55°	99	92
65°	22	24
75°	1	2
85°	0	0
90°	0	



TEST NUMBER: P245528

CATALOG NUMBER: LSR8B20D010 EC8B20827 8LBW0GPH

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1429.6
2.5°	1418.3
5°	1390.5
7.5°	1358.7
10°	1331.5
12.5°	1309.0
15°	1287.1
17.5°	1263.9
20°	1237.4
22.5°	1206.2
25°	1167.8
27.5°	1116.1
30°	1045.2
32.5°	945.8
35°	807.3
37.5°	625.7
40°	450.7
42.5°	325.4
45°	249.9
47.5°	201.5
50°	163.7
52.5°	129.9
55°	99.4
57.5°	74.2
60°	54.3
62.5°	37.8
65°	22.5
67.5°	9.9
70°	4.6
72.5°	2.7
75°	1.3
77.5°	0.7
80°	0.7
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)