

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: P246650

Luminaire Tested: **LSR8B20D010 EC8B20935 8LBN0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246650
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201839)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B20D010 EC8B20935 8LBN0MW
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1750.0 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.85
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

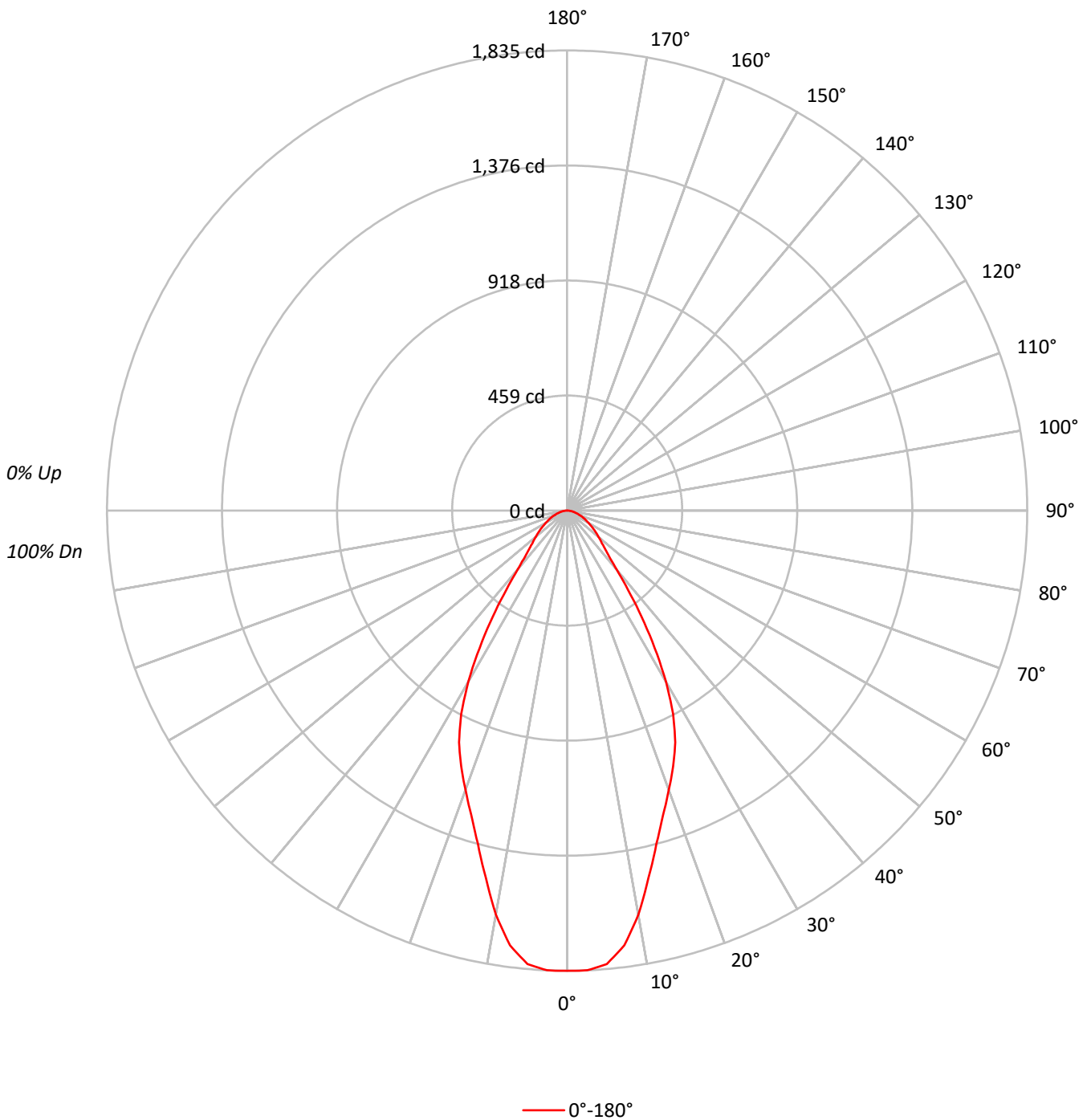
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P246650

CATALOG NUMBER: LSR8B20D010 EC8B20935 8LBN0MW

Luminous Intensity Polar Plot





TEST NUMBER: P246650

CATALOG NUMBER: LSR8B20D010 EC8B20935 8LBN0MW

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	112	109	106	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74
4	93	84	77	72	91	83	76	72	80	75	71	78	74	70	76	72	69	67
5	87	78	71	66	85	77	70	65	75	69	65	73	68	64	71	67	64	62
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57
7	78	67	60	56	76	67	60	55	65	59	55	64	59	55	63	58	54	53
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	49
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46
10	66	56	49	45	65	55	49	45	54	49	45	54	48	45	53	48	45	43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	56591
5°	56185
10°	51201
15°	43886
20°	38893
25°	34708
30°	28030
35°	19447
40°	12338
45°	9167
50°	7824
55°	6860
60°	6136
65°	5487
70°	4724
75°	4349
80°	4049
85°	3573



TEST NUMBER: P246650

CATALOG NUMBER: LSR8B20D010 EC8B20935 8LBN0MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.4	9.6
10°-20°	387.2	22.1
20°-30°	460.5	26.3
30°-40°	325.5	18.6
40°-50°	168.0	9.6
50°-60°	115.2	6.6
60°-70°	74.8	4.3
70°-80°	39.2	2.2
80°-90°	12.1	0.7
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°	1015.2	58.0
0°-40°	1340.7	76.6
0°-60°	1623.9	92.8
0°-90°	1750.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1750.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1835	
5°	1815	167
15°	1375	387
25°	1020	461
35°	517	326
45°	210	168
55°	128	115
65°	75	75
75°	36	39
85°	10	11
90°	0	1
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: P246650

CATALOG NUMBER: LSR8B20D010 EC8B20935 8LBN0MW

CANDELA DISTRIBUTION (FULL):

0°	
0°	1835.2
2.5°	1835.2
5°	1815.1
7.5°	1748.4
10°	1635.2
12.5°	1500.1
15°	1374.7
17.5°	1271.5
20°	1185.2
22.5°	1103.7
25°	1020.1
27.5°	915.2
30°	787.2
32.5°	649.5
35°	516.6
37.5°	398.0
40°	306.5
42.5°	246.7
45°	210.2
47.5°	183.7
50°	163.1
52.5°	145.0
55°	127.6
57.5°	112.2
60°	99.5
62.5°	86.2
65°	75.2
67.5°	65.1
70°	52.4
72.5°	45.0
75°	36.5
77.5°	29.6
80°	22.8
82.5°	17.0
85°	10.1
87.5°	5.8
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: P246650

CATALOG NUMBER: LSR8B20D010 EC8B20935 8LBN0MW

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)