

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: P244748

Luminaire Tested: **LSR8B20D010 EC8B20835 8LBN0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244748
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201884)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B20D010 EC8B20835 8LBN0WMH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1955.9 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Spacing Criteria (0/90/45): 0.74 / 0.74 / 0.79
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

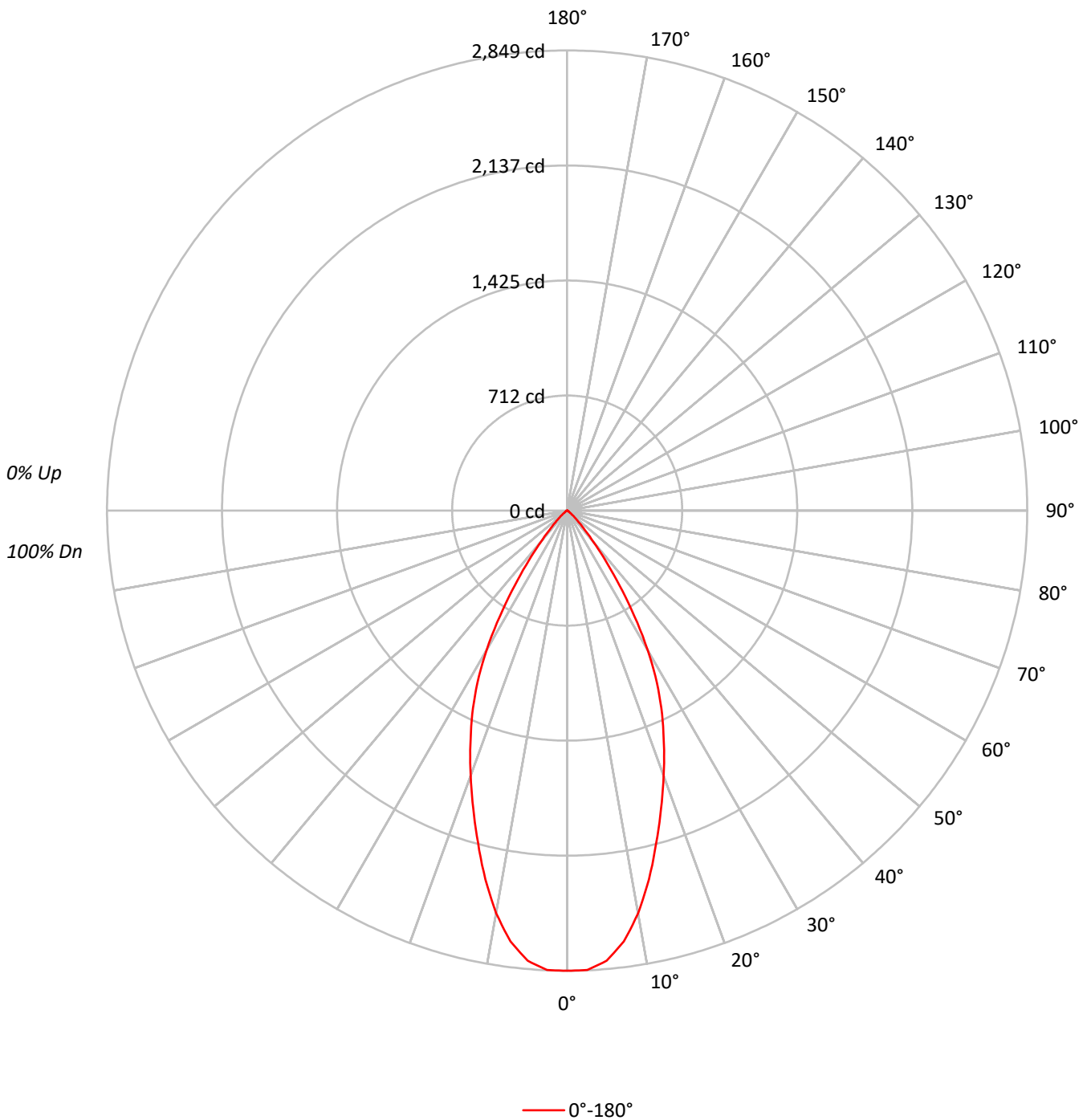
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P244748

CATALOG NUMBER: LSR8B20D010 EC8B20835 8LBN0WMH

Luminous Intensity Polar Plot





TEST NUMBER: P244748

CATALOG NUMBER: LSR8B20D010 EC8B20835 8LBN0WMH

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	108	104	100	97	106	102	99	96	99	96	93	96	94	91	93	91	90	88
3	103	97	92	89	101	96	91	88	93	89	86	91	88	85	89	86	84	82
4	98	91	86	82	97	90	85	81	88	84	80	86	82	79	84	81	79	77
5	94	86	80	76	92	85	80	76	83	78	75	81	77	74	80	76	74	72
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68
7	85	76	71	67	84	76	70	66	74	70	66	73	69	66	72	68	65	64
8	81	72	66	63	80	72	66	62	71	66	62	70	65	62	69	65	62	60
9	78	68	63	59	77	68	63	59	67	62	59	66	62	59	65	61	58	57
10	74	65	59	56	73	65	59	56	64	59	56	63	59	55	62	58	55	54

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	87840
5°	86616
10°	79251
15°	68043
20°	57296
25°	47328
30°	35507
35°	21164
40°	10080
45°	4391
50°	1981
55°	871
60°	518
65°	285
70°	289
75°	0
80°	107
85°	460



TEST NUMBER: P244748

CATALOG NUMBER: LSR8B20D010 EC8B20835 8LBN0WMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.4	13.2
10°-20°	593.9	30.4
20°-30°	630.1	32.2
30°-40°	359.5	18.4
40°-50°	89.1	4.6
50°-60°	17.5	0.9
60°-70°	5.2	0.3
70°-80°	1.2	0.1
80°-90°	1.0	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°	1482.4	75.8
0°-40°	1842.0	94.2
0°-60°	1948.6	99.6
0°-90°	1955.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1955.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2849	
5°	2798	258
15°	2131	594
25°	1391	630
35°	562	360
45°	101	89
55°	16	17
65°	4	5
75°	0	1
85°	1	1
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: P244748

CATALOG NUMBER: LSR8B20D010 EC8B20835 8LBN0WMH

CANDELA DISTRIBUTION (FULL):

0°	
0°	2848.6
2.5°	2847.2
5°	2798.2
7.5°	2690.4
10°	2531.0
12.5°	2338.6
15°	2131.4
17.5°	1933.9
20°	1746.0
22.5°	1565.4
25°	1391.0
27.5°	1203.8
30°	997.2
32.5°	775.2
35°	562.2
37.5°	387.3
40°	250.4
42.5°	158.8
45°	100.7
47.5°	65.9
50°	41.3
52.5°	25.1
55°	16.2
57.5°	13.0
60°	8.4
62.5°	7.7
65°	3.9
67.5°	3.9
70°	3.2
72.5°	1.9
75°	0.0
77.5°	0.6
80°	0.6
82.5°	1.3
85°	1.3
87.5°	0.6
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: P244748

CATALOG NUMBER: LSR8B20D010 EC8B20835 8LBN0WMH

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)