

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: P246662

Luminaire Tested: **LSR8B20D010 EC8B20950 8LBN0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246662
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 EC8B20950 8LBN0MW
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1891.9 lumens
Efficiency: N/A
Efficacy: 88.8 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

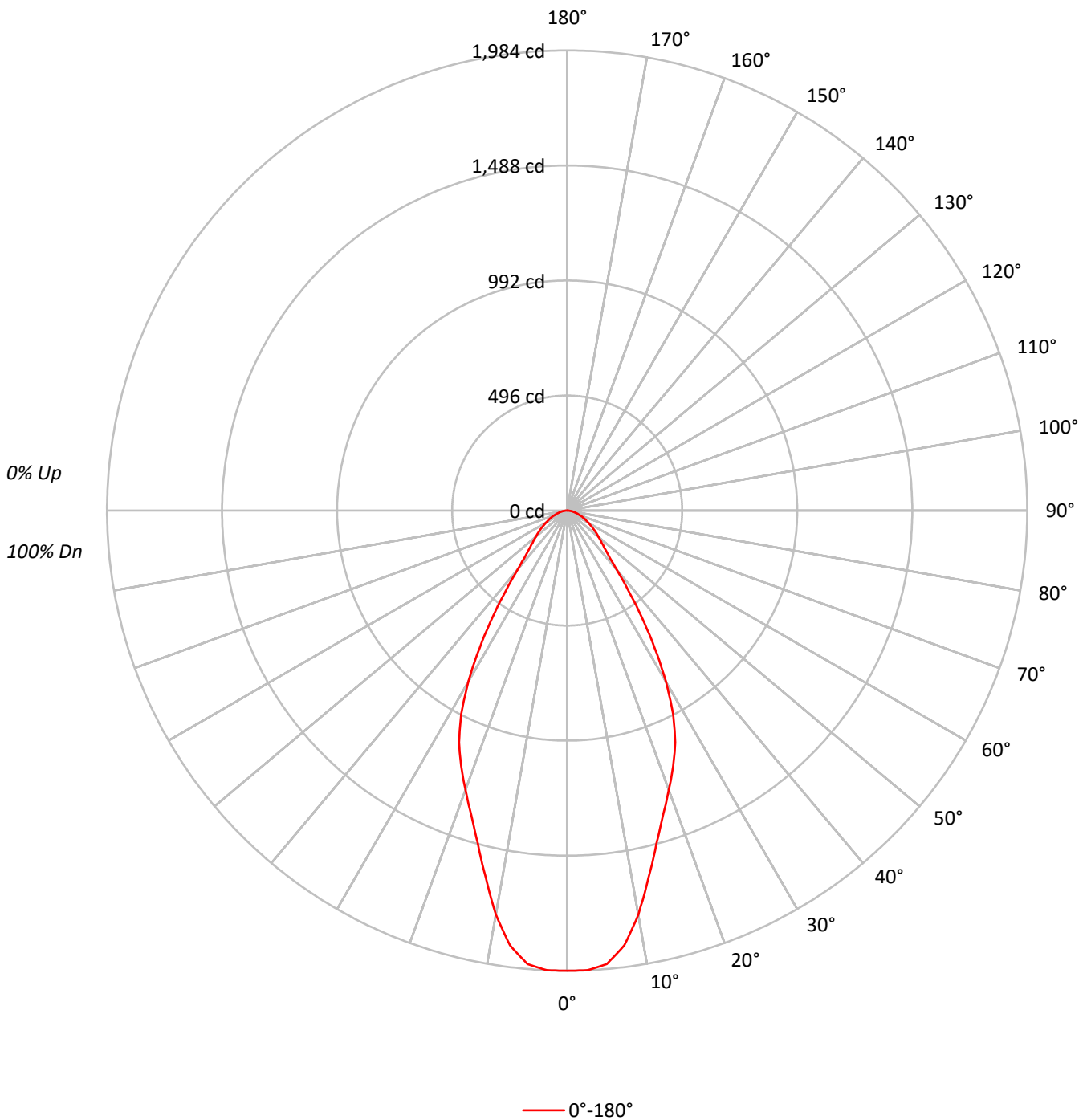
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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°	61182
5°	60744
10°	55357
15°	47446
20°	42050
25°	37522
30°	30305
35°	21024
40°	13340
45°	9908
50°	8458
55°	7414
60°	6636
65°	5932
70°	5112
75°	4694
80°	4386
85°	3856



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.0	9.6
10°-20°	418.7	22.1
20°-30°	497.9	26.3
30°-40°	351.9	18.6
40°-50°	181.7	9.6
50°-60°	124.5	6.6
60°-70°	80.9	4.3
70°-80°	42.4	2.2
80°-90°	13.0	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°	1097.5	58.0
0°-40°	1449.5	76.6
0°-60°	1755.7	92.8
0°-90°	1891.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1891.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1984	
5°	1962	181
15°	1486	419
25°	1103	498
35°	558	352
45°	227	182
55°	138	125
65°	81	81
75°	39	42
85°	11	12
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



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1984.1
2.5°	1984.1
5°	1962.4
7.5°	1890.2
10°	1767.9
12.5°	1621.9
15°	1486.2
17.5°	1374.7
20°	1281.4
22.5°	1193.2
25°	1102.8
27.5°	989.4
30°	851.1
32.5°	702.2
35°	558.5
37.5°	430.3
40°	331.4
42.5°	266.7
45°	227.2
47.5°	198.6
50°	176.3
52.5°	156.8
55°	137.9
57.5°	121.3
60°	107.6
62.5°	93.2
65°	81.3
67.5°	70.4
70°	56.7
72.5°	48.7
75°	39.4
77.5°	32.0
80°	24.7
82.5°	18.3
85°	10.9
87.5°	6.3
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



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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)