

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: P246326

Luminaire Tested: **LSR8B20D010 EC8B20830 8LBN0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246326
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201749)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B20D010 EC8B20830 8LBN0B
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 1887 (1 lamp)
Luminaire Lumens: 1251.0 lumens
Efficiency: 66.3%
Efficacy: 58.7 lumens/watt
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.77
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

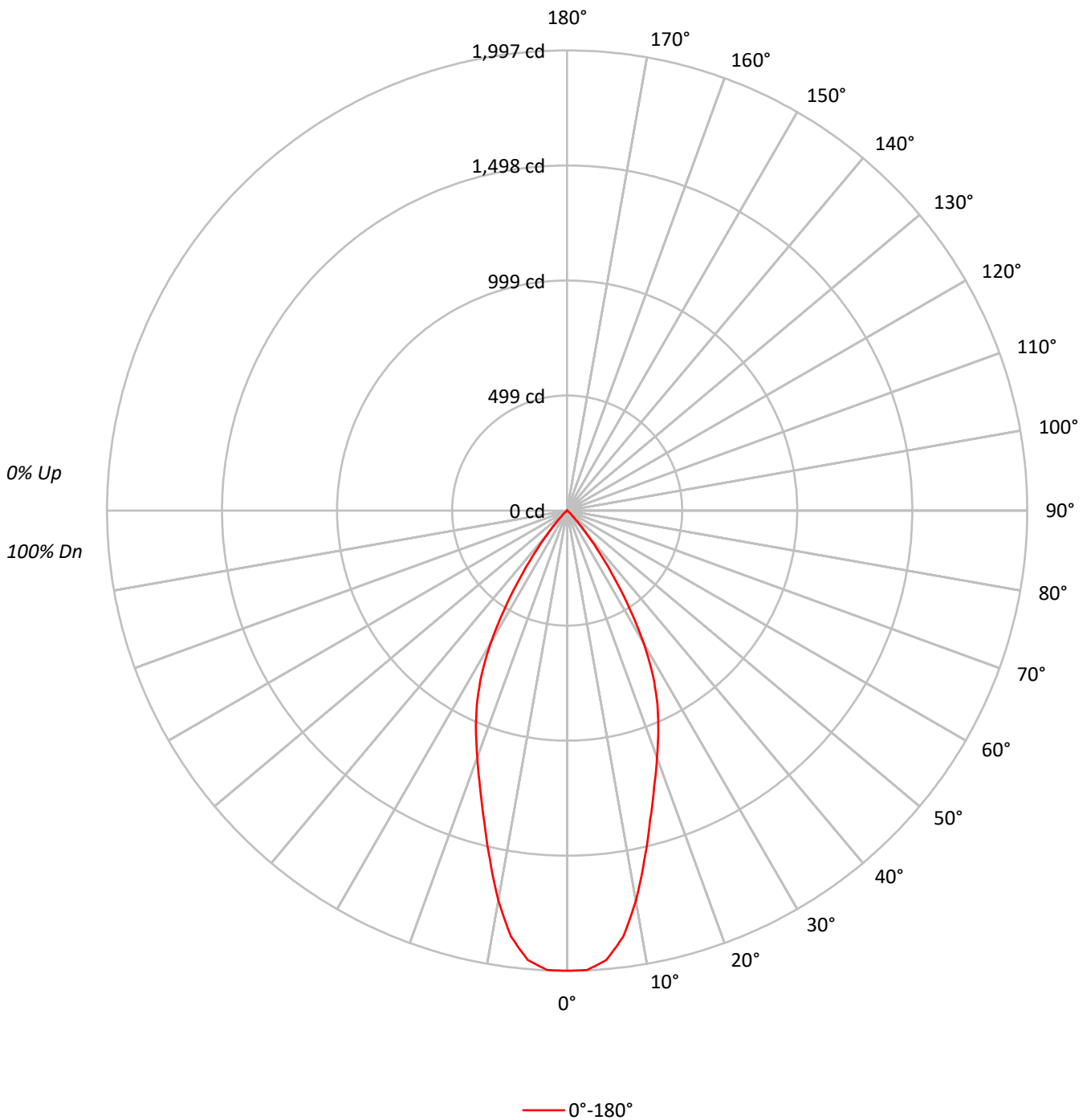
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	79	79	79	79	77	77	77	77	74	74	74		71	71	71		68	68	68	66
1	76	74	72	71	74	72	71	70	70	69	68		67	66	66		65	64	64	63
2	72	69	67	65	71	68	66	64	66	64	62		64	62	61		62	61	60	59
3	69	65	62	59	68	64	61	59	62	60	58		61	59	57		59	58	56	55
4	66	61	58	55	65	60	57	55	59	56	54		58	55	54		56	55	53	52
5	63	58	54	51	62	57	54	51	56	53	51		55	52	50		54	52	50	49
6	60	54	51	48	59	54	51	48	53	50	48		52	49	47		51	49	47	46
7	57	52	48	45	56	51	48	45	50	47	45		50	47	45		49	46	44	44
8	55	49	45	43	54	49	45	43	48	45	42		47	44	42		47	44	42	41
9	52	46	43	40	52	46	43	40	46	42	40		45	42	40		44	42	40	39
10	50	44	41	38	50	44	40	38	43	40	38		43	40	38		42	40	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	61574
5°	60602
10°	53835
15°	44422
20°	37403
25°	31547
30°	23629
35°	13364
40°	5277
45°	1413
50°	283
55°	0
60°	43
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	179.1	14.3	9.5	0°	1997	
10°-20°	390.5	31.2	20.7	5°	1958	179
20°-30°	418.3	33.4	22.2	15°	1392	390
30°-40°	226.7	18.1	12.0	25°	927	418
40°-50°	35.2	2.8	1.9	35°	355	227
50°-60°	1.0	0.1	0.1	45°	32	35
60°-70°	0.3	0.0	0.0	55°	0	1
70°-80°	0.0	0.0	0.0	65°	0	0
80°-90°	0.0	0.0	0.0	75°	0	0
90°-100°	0.0	0.0	0.0	85°	0	0
100°-110°	0.0	0.0	0.0	90°	0	0
110°-120°	0.0	0.0	0.0	95°	0	0
120°-130°	0.0	0.0	0.0	105°	0	0
130°-140°	0.0	0.0	0.0	115°	0	0
140°-150°	0.0	0.0	0.0	125°	0	0
150°-160°	0.0	0.0	0.0	135°	0	0
160°-170°	0.0	0.0	0.0	145°	0	0
170°-180°	0.0	0.0	0.0	155°	0	0
0°-30°	987.9	79.0	52.4	165°	0	0
0°-40°	1214.5	97.1	64.4	175°	0	0
0°-60°	1250.8	100.0	66.3	180°	0	0
0°-90°	1251.0	100.0	66.3			
90°-120°	0.0	0.0	0.0			
90°-150°	0.0	0.0	0.0			
90°-180°	0.0	0.0	0.0			
0°-180°	1251.0	100.0	66.3			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1996.8
2.5°	1995.5
5°	1957.8
7.5°	1864.4
10°	1719.3
12.5°	1550.4
15°	1391.5
17.5°	1257.0
20°	1139.8
22.5°	1034.5
25°	927.2
27.5°	806.0
30°	663.6
32.5°	506.0
35°	355.0
37.5°	227.2
40°	131.1
42.5°	70.2
45°	32.4
47.5°	17.2
50°	5.9
52.5°	0.7
55°	0.0
57.5°	0.7
60°	0.7
62.5°	0.0
65°	0.0
67.5°	0.7
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
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



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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)