

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: P245660

Luminaire Tested: **LSR8B20D010 EC8B209727 8LBN0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245660
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201794)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B20D010 EC8B209727 8LBN0GPH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 2183 (1 lamp)
Luminaire Lumens: 1257.0 lumens
Efficiency: 57.6%
Efficacy: 59.0 lumens/watt
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.77
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

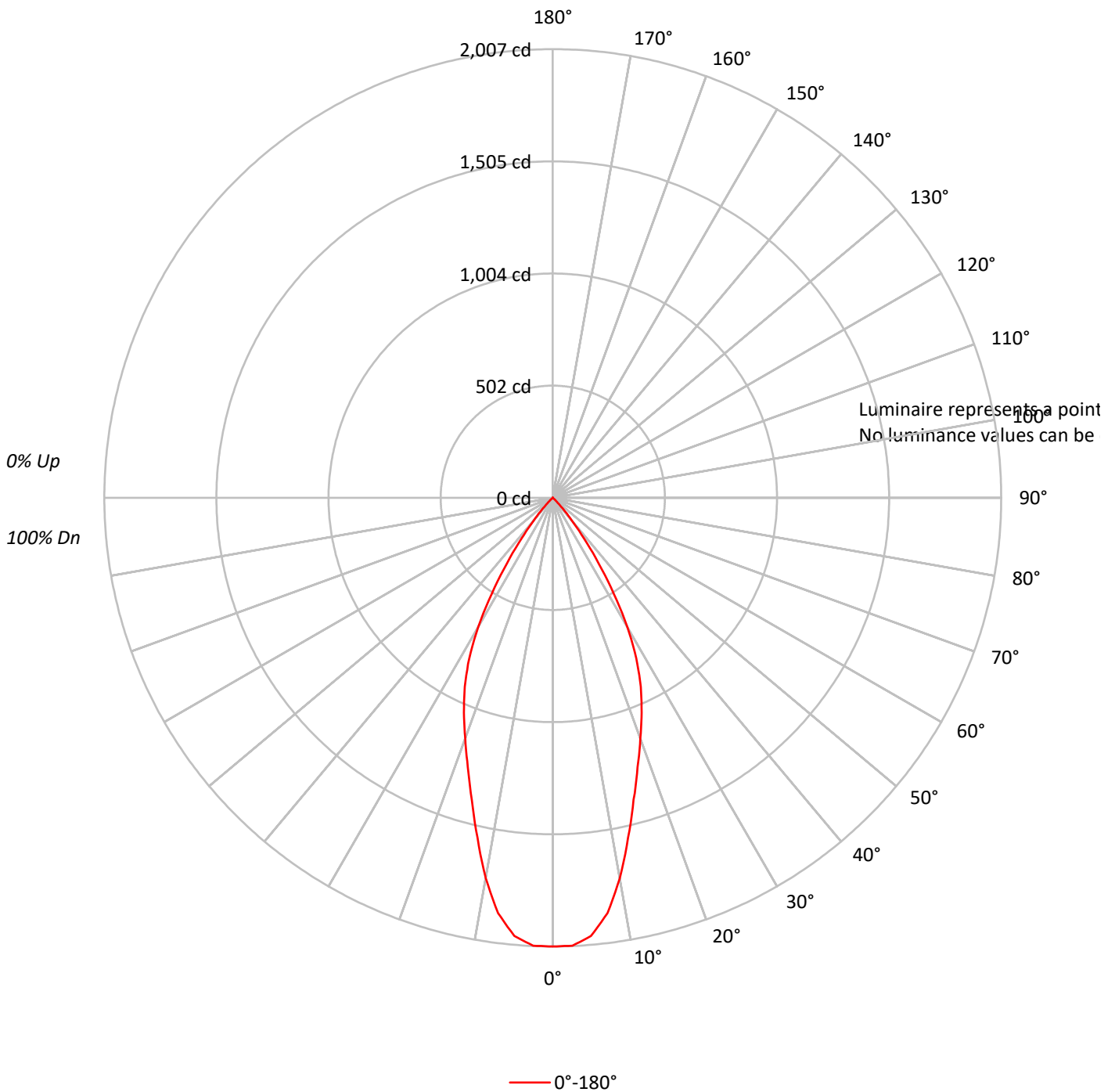
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	69	69	69	69	67	67	67	67	64	64	64	61	61	61	59	59	59	58		
1	66	64	63	62	64	63	62	61	61	60	59	58	58	57	56	56	55	54		
2	63	60	58	56	61	59	57	55	57	56	54	56	54	53	54	53	52	51		
3	60	56	54	52	59	56	53	51	54	52	50	53	51	50	51	50	49	48		
4	57	53	50	48	56	52	50	48	51	49	47	50	48	47	49	47	46	45		
5	54	50	47	45	54	50	47	44	49	46	44	48	45	44	47	45	43	43		
6	52	47	44	42	51	47	44	42	46	43	41	45	43	41	44	42	41	40		
7	50	45	42	39	49	44	41	39	44	41	39	43	41	39	42	40	39	38		
8	48	42	39	37	47	42	39	37	42	39	37	41	38	37	40	38	37	36		
9	45	40	37	35	45	40	37	35	40	37	35	39	37	35	39	36	35	34		
10	44	38	35	33	43	38	35	33	38	35	33	37	35	33	37	35	33	32		

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	180.0	14.3	8.2	0°	2007	
10°-20°	392.4	31.2	18.0	5°	1967	180
20°-30°	420.3	33.4	19.3	15°	1398	392
30°-40°	227.7	18.1	10.4	25°	932	420
40°-50°	35.5	2.8	1.6	35°	357	228
50°-60°	0.9	0.1	0.0	45°	33	35
60°-70°	0.2	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°	992.7	79.0	45.5	165°	0	0
0°-40°	1220.4	97.1	55.9	175°	0	0
0°-60°	1256.8	100.0	57.6	180°	0	0
0°-90°	1257.0	100.0	57.6			
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°	1257.0	100.0	57.6			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2006.9
2.5°	2005.3
5°	1967.2
7.5°	1873.5
10°	1728.0
12.5°	1557.7
15°	1398.4
17.5°	1263.2
20°	1145.2
22.5°	1039.4
25°	931.9
27.5°	809.9
30°	666.6
32.5°	508.5
35°	356.6
37.5°	228.4
40°	131.7
42.5°	70.2
45°	32.8
47.5°	17.9
50°	5.7
52.5°	0.6
55°	0.0
57.5°	0.6
60°	0.6
62.5°	0.0
65°	0.0
67.5°	0.6
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)