

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: P245666

Luminaire Tested: **LSR8B20D010 EC8B209730 8LBN0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245666
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 EC8B209730 8LBN0GPH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 2183 (1 lamp)
Luminaire Lumens: 1330.0 lumens
Efficiency: 60.9%
Efficacy: 62.4 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

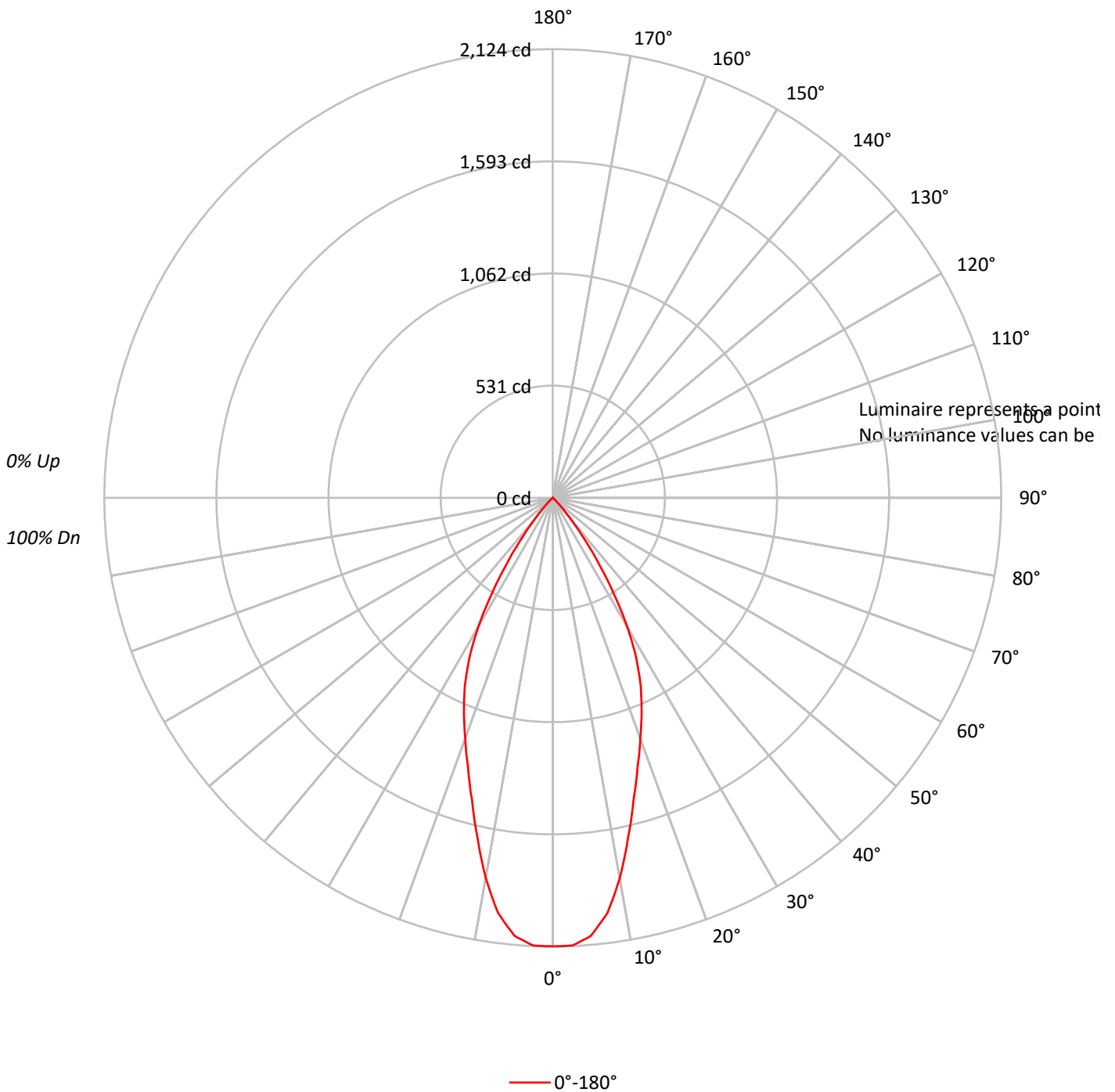
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	73	73	73	73	71	71	71	71	68	68	68	65	65	65	62	62	62	61
1	69	68	66	65	68	67	65	64	64	63	62	62	61	60	60	59	59	58
2	66	64	61	59	65	63	60	59	61	59	57	59	57	56	57	56	55	54
3	63	60	57	55	62	59	56	54	57	55	53	56	54	53	54	53	52	51
4	60	56	53	51	59	55	53	50	54	52	50	53	51	49	52	50	49	48
5	58	53	50	47	57	52	49	47	51	49	47	50	48	46	49	47	46	45
6	55	50	47	44	54	50	46	44	49	46	44	48	45	44	47	45	43	42
7	53	47	44	42	52	47	44	41	46	43	41	46	43	41	45	43	41	40
8	50	45	42	39	50	45	41	39	44	41	39	43	41	39	43	40	39	38
9	48	43	39	37	47	42	39	37	42	39	37	41	39	37	41	38	37	36
10	46	41	37	35	46	40	37	35	40	37	35	39	37	35	39	37	35	34

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	190.5	14.3	8.7	0°	2124	
10°-20°	415.1	31.2	19.0	5°	2082	190
20°-30°	444.7	33.4	20.4	15°	1480	415
30°-40°	241.0	18.1	11.0	25°	986	445
40°-50°	37.5	2.8	1.7	35°	377	241
50°-60°	1.0	0.1	0.0	45°	35	37
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°	1050.3	79.0	48.1	165°	0	0
0°-40°	1291.3	97.1	59.2	175°	0	0
0°-60°	1329.8	100.0	60.9	180°	0	0
0°-90°	1330.0	100.0	60.9			
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°	1330.0	100.0	60.9			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2123.5
2.5°	2121.7
5°	2081.5
7.5°	1982.3
10°	1828.3
12.5°	1648.1
15°	1479.6
17.5°	1336.5
20°	1211.8
22.5°	1099.8
25°	986.0
27.5°	856.9
30°	705.4
32.5°	538.0
35°	377.4
37.5°	241.7
40°	139.3
42.5°	74.2
45°	34.7
47.5°	18.9
50°	6.0
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)