

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: P245606

Luminaire Tested: **LSR8B20D010 EC8B20830 8LBN0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245606
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 EC8B20830 8LBN0GPH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 2183 (1 lamp)
Luminaire Lumens: 1736.0 lumens
Efficiency: 79.5%
Efficacy: 81.5 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

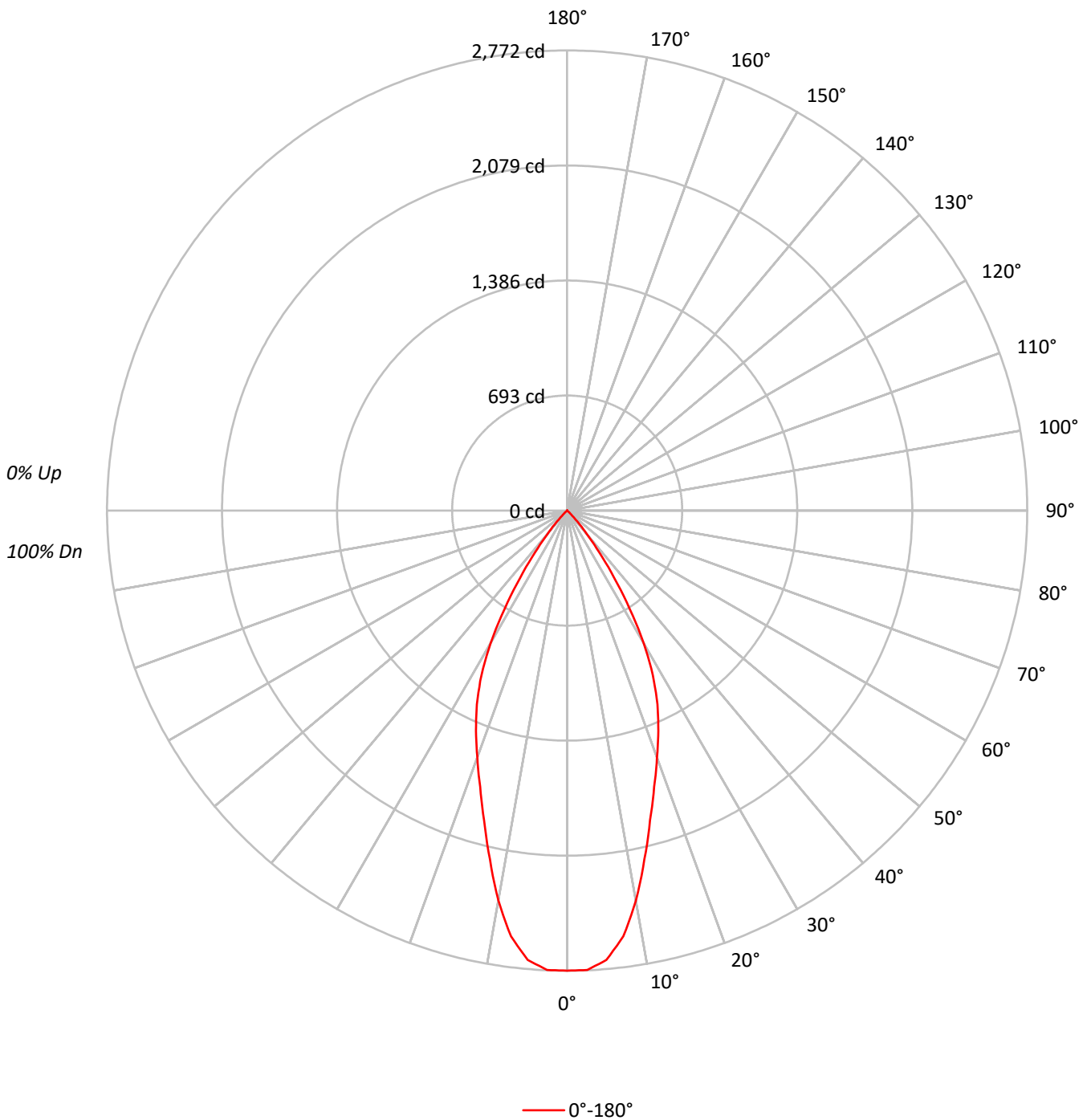
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	95	95	95	95	92	92	92	92	88	88	88	85	85	85	81	81	81	80				80															
1	91	89	87	85	89	87	85	84	84	82	81	81	80	79	78	77	76				75																
2	87	83	80	77	85	82	79	77	79	77	75	77	75	73	75	73	72				71																
3	83	78	74	71	81	77	73	71	75	72	70	73	71	69	71	69	68				66																
4	79	73	69	66	77	72	69	66	71	68	65	69	66	64	68	65	64				62																
5	75	69	65	62	74	68	64	61	67	64	61	66	63	60	65	62	60				59																
6	72	65	61	58	71	65	61	58	64	60	57	62	59	57	61	59	56				55																
7	69	62	57	54	68	61	57	54	60	57	54	59	56	54	59	56	53				52																
8	66	59	54	51	65	58	54	51	57	54	51	57	53	51	56	53	50				49																
9	63	56	51	48	62	55	51	48	55	51	48	54	50	48	53	50	48				47																
10	60	53	49	46	59	53	49	46	52	48	46	51	48	46	51	48	45				44																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	85469
5°	84099
10°	74723
15°	61655
20°	51904
25°	43789
30°	32783
35°	18540
40°	7322
45°	1971
50°	379
55°	0
60°	49
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°	248.6	14.3	11.4	0°	2772	
10°-20°	541.9	31.2	24.8	5°	2717	249
20°-30°	580.4	33.4	26.6	15°	1931	542
30°-40°	314.5	18.1	14.4	25°	1287	580
40°-50°	48.9	2.8	2.2	35°	492	315
50°-60°	1.3	0.1	0.1	45°	45	49
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°	1370.9	79.0	62.8	165°	0	0
0°-40°	1685.5	97.1	77.2	175°	0	0
0°-60°	1735.7	100.0	79.5	180°	0	0
0°-90°	1736.0	100.0	79.5			
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°	1736.0	100.0	79.5			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2771.7
2.5°	2769.4
5°	2716.9
7.5°	2587.4
10°	2386.4
12.5°	2151.3
15°	1931.3
17.5°	1744.5
20°	1581.7
22.5°	1435.5
25°	1287.0
27.5°	1118.5
30°	920.7
32.5°	702.2
35°	492.5
37.5°	315.4
40°	181.9
42.5°	96.9
45°	45.2
47.5°	24.7
50°	7.9
52.5°	0.8
55°	0.0
57.5°	0.8
60°	0.8
62.5°	0.0
65°	0.0
67.5°	0.8
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)