

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: **LD8B20D010 ER8B20930 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: LD8B20D010 ER8B20930 8LBN0GPH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 3000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 2183 (1 lamp)  
Luminaire Lumens: 1491.0 lumens  
Efficiency: 68.3%  
Efficacy: 70.0 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

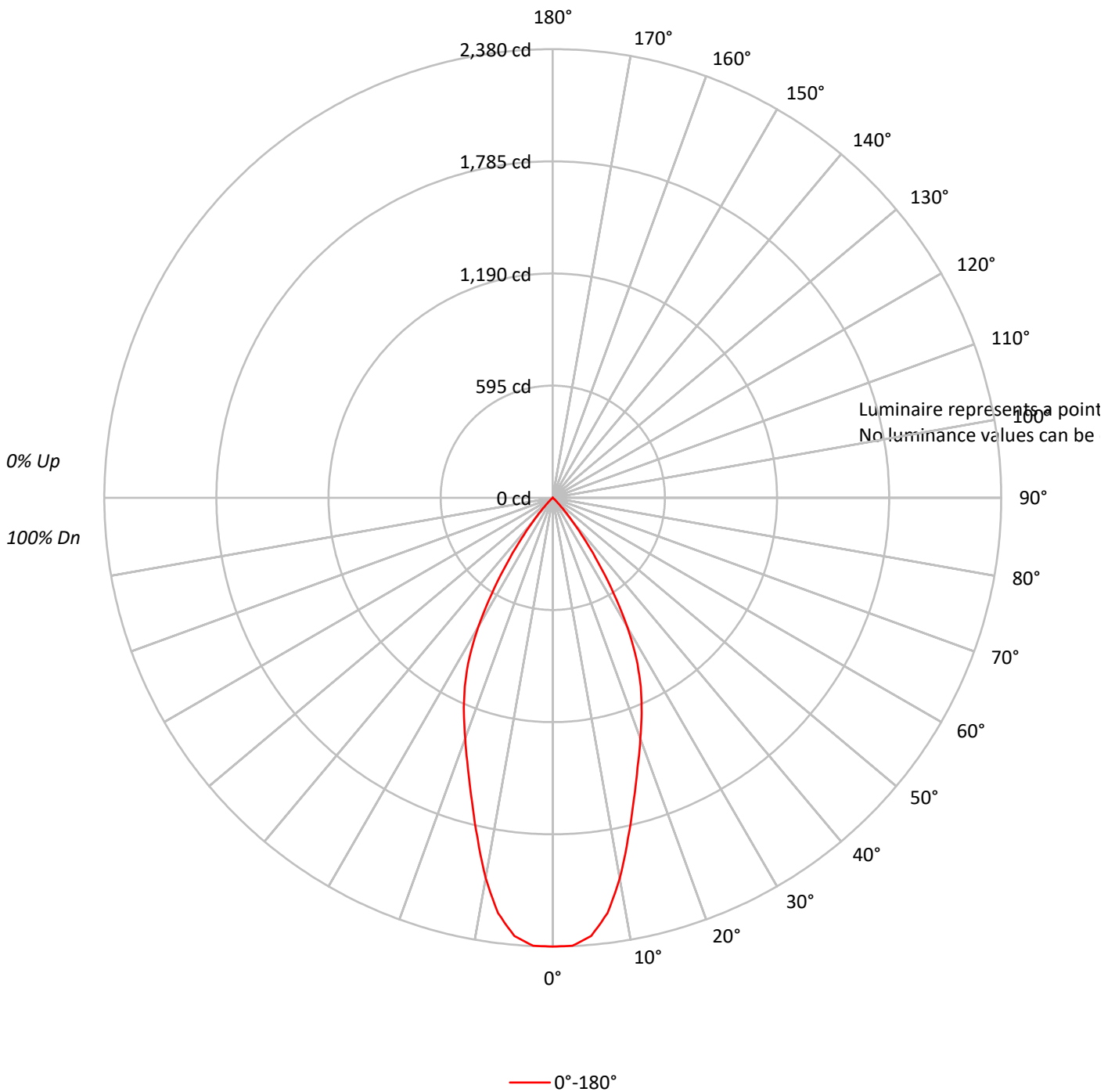
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	81	81	81	81	79	79	79	79	76	76	76		73	73	73		70	70	70	68
1	78	76	74	73	76	75	73	72	72	71	70		69	68	68		67	66	66	64
2	74	71	69	67	73	70	68	66	68	66	64		66	64	63		64	63	62	61
3	71	67	64	61	70	66	63	61	64	62	60		63	61	59		61	59	58	57
4	68	63	59	57	67	62	59	56	61	58	56		59	57	55		58	56	55	54
5	65	59	56	53	64	59	55	53	58	55	52		56	54	52		55	53	51	50
6	62	56	52	50	61	56	52	49	55	51	49		54	51	49		53	50	48	48
7	59	53	49	47	58	53	49	47	52	49	46		51	48	46		50	48	46	45
8	56	50	47	44	56	50	46	44	49	46	44		49	46	44		48	45	43	42
9	54	48	44	42	53	48	44	41	47	44	41		46	43	41		46	43	41	40
10	52	46	42	39	51	45	42	39	45	41	39		44	41	39		44	41	39	38

**AVERAGE LUMINANCE (cd/sqm):**





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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	213.5	14.3	9.8	0°	2380	
10°-20°	465.4	31.2	21.3	5°	2333	214
20°-30°	498.5	33.4	22.8	15°	1659	465
30°-40°	270.2	18.1	12.4	25°	1105	499
40°-50°	42.0	2.8	1.9	35°	423	270
50°-60°	1.1	0.1	0.1	45°	39	42
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°	1177.4	79.0	53.9	165°	0	0
0°-40°	1447.6	97.1	66.3	175°	0	0
0°-60°	1490.7	100.0	68.3	180°	0	0
0°-90°	1491.0	100.0	68.3			
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°	1491.0	100.0	68.3			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2380.4
2.5°	2378.4
5°	2333.4
7.5°	2222.2
10°	2049.5
12.5°	1847.5
15°	1658.6
17.5°	1498.2
20°	1358.4
22.5°	1232.9
25°	1105.3
27.5°	960.6
30°	790.8
32.5°	603.1
35°	423.1
37.5°	270.9
40°	156.2
42.5°	83.2
45°	38.9
47.5°	21.2
50°	6.7
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)