

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: P246332

Luminaire Tested: **LD8B20D010 ER8B20835 8LBN0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246332  
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: LD8B20D010 ER8B20835 8LBN0B  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 3500 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 1887 (1 lamp)  
Luminaire Lumens: 1301.0 lumens  
Efficiency: 68.9%  
Efficacy: 61.1 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

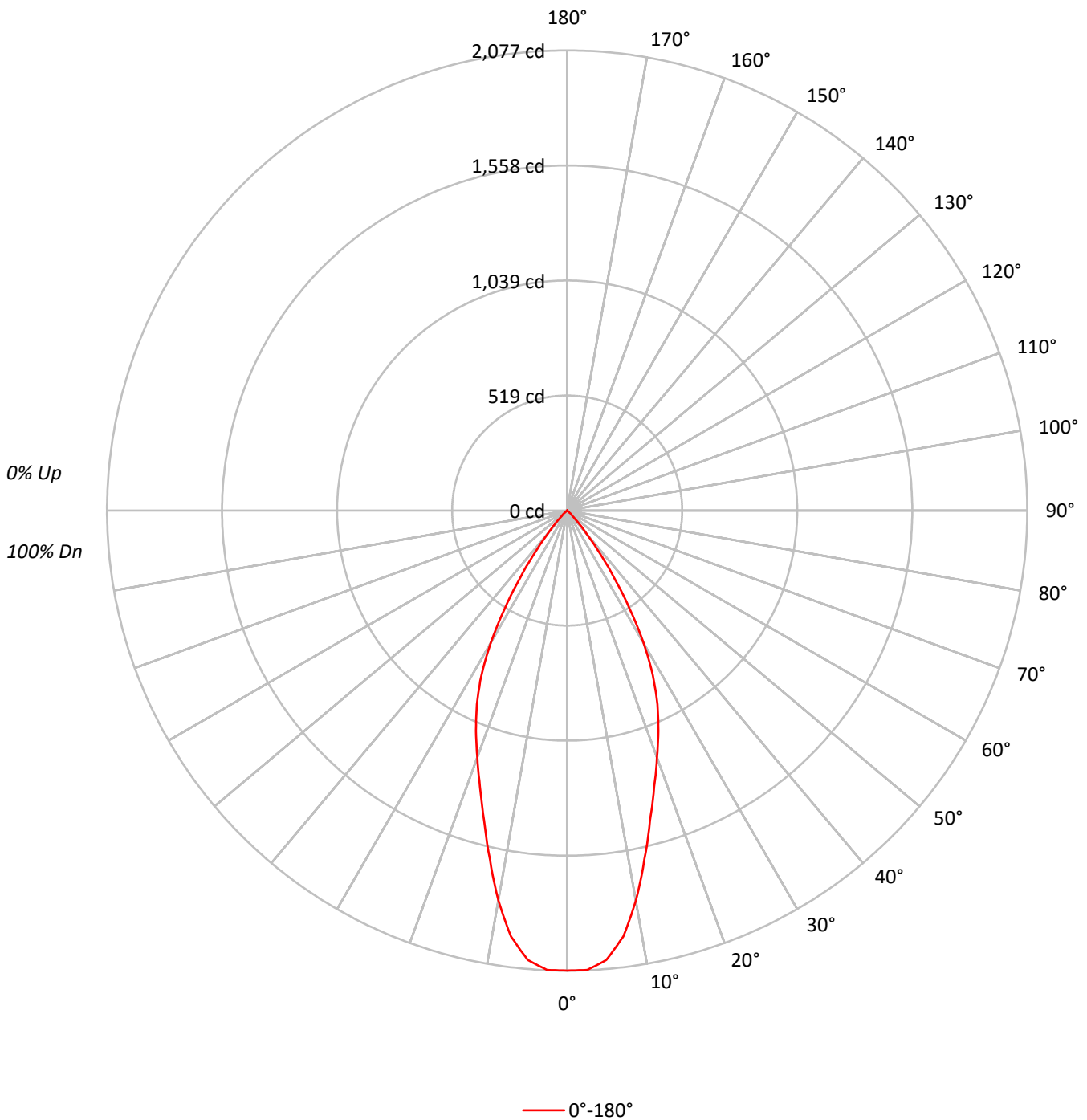
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	82	82	82	82	80	80	80	80	77	77	77		73	73	73		70	70	70	69
1	79	77	75	74	77	75	74	73	73	71	70		70	69	68		68	67	66	65
2	75	72	69	67	74	71	68	66	69	67	65		67	65	64		65	63	62	61
3	72	68	64	62	70	67	64	61	65	62	60		63	61	59		62	60	59	58
4	68	64	60	57	67	63	60	57	61	59	56		60	58	56		59	57	55	54
5	65	60	56	53	64	59	56	53	58	55	53		57	54	52		56	54	52	51
6	62	57	53	50	61	56	53	50	55	52	50		54	51	49		53	51	49	48
7	60	54	50	47	59	53	50	47	52	49	47		52	49	46		51	48	46	45
8	57	51	47	44	56	50	47	44	50	46	44		49	46	44		48	46	44	43
9	54	48	45	42	54	48	44	42	47	44	42		47	44	42		46	43	41	41
10	52	46	42	40	51	46	42	40	45	42	40		45	42	39		44	41	39	39

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

	0°
0°	64035
5°	63023
10°	55986
15°	46197
20°	38899
25°	32809
30°	24576
35°	13898
40°	5491
45°	1470
50°	297
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°	186.3	14.3	9.9	0°	2077	
10°-20°	406.1	31.2	21.5	5°	2036	186
20°-30°	435.0	33.4	23.1	15°	1447	406
30°-40°	235.7	18.1	12.5	25°	964	435
40°-50°	36.6	2.8	1.9	35°	369	236
50°-60°	1.1	0.1	0.1	45°	34	37
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°	1027.4	79.0	54.4	165°	0	0
0°-40°	1263.1	97.1	66.9	175°	0	0
0°-60°	1300.8	100.0	68.9	180°	0	0
0°-90°	1301.0	100.0	68.9			
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°	1301.0	100.0	68.9			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2076.6
2.5°	2075.2
5°	2036.0
7.5°	1938.9
10°	1788.0
12.5°	1612.4
15°	1447.1
17.5°	1307.3
20°	1185.4
22.5°	1075.8
25°	964.3
27.5°	838.2
30°	690.2
32.5°	526.2
35°	369.2
37.5°	236.3
40°	136.4
42.5°	73.0
45°	33.7
47.5°	17.9
50°	6.2
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)