

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: P245618

Luminaire Tested: **LD8B20D010 ER8B20840 8LBN0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245618  
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 ER8B20840 8LBN0GPH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 4000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 2183 (1 lamp)  
Luminaire Lumens: 1794.0 lumens  
Efficiency: 82.2%  
Efficacy: 84.2 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

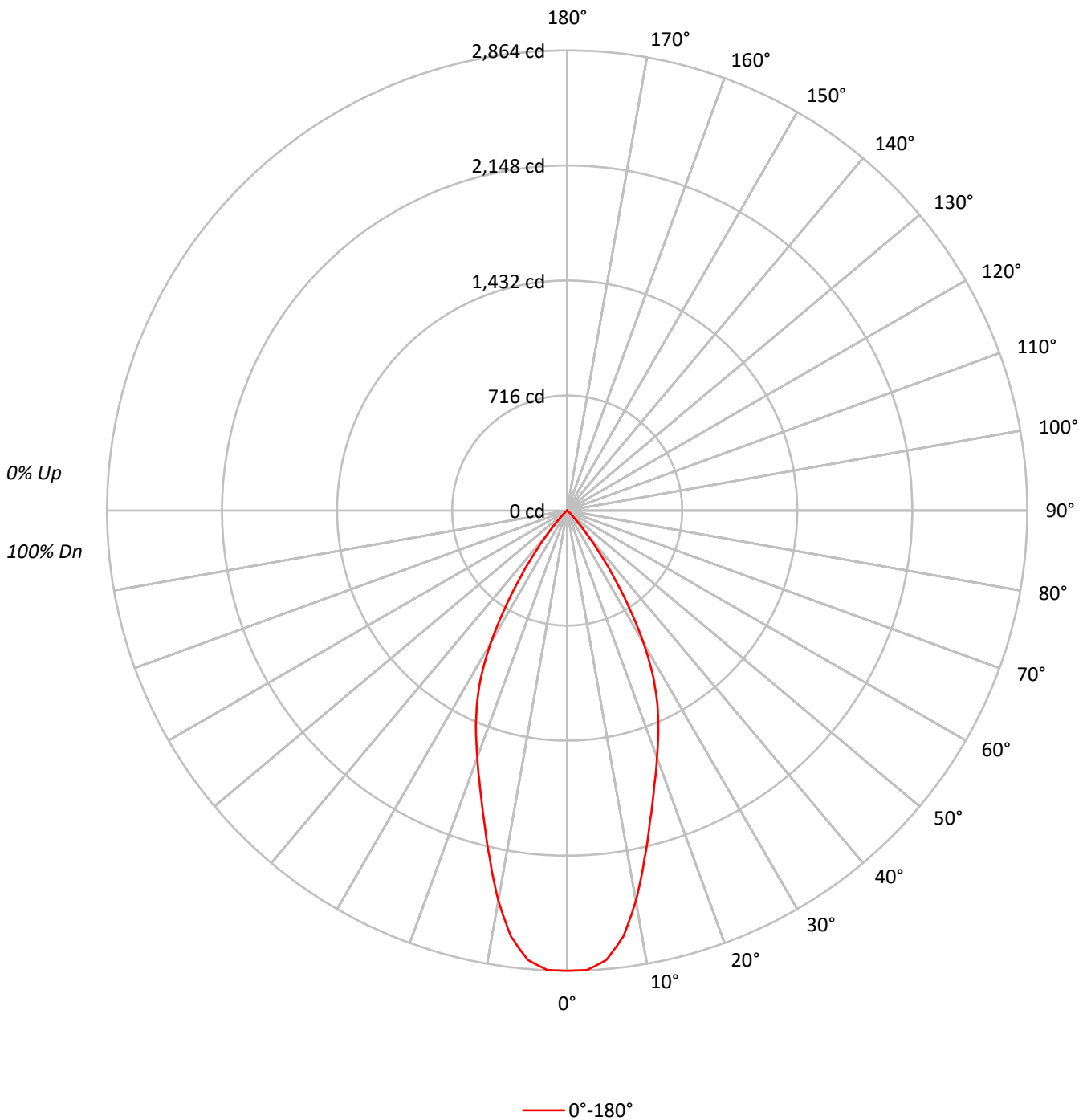
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					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	50	30	10	0	
RCR																						
0	98	98	98	98	96	96	96	96	91	91	91	87	87	87	84	84	84	82				
1	94	92	90	88	92	90	88	86	86	85	84	83	82	81	81	80	79	78				
2	89	86	83	80	88	84	82	79	82	79	77	79	77	76	77	76	74	73				
3	85	81	77	74	84	79	76	73	77	74	72	75	73	71	73	71	70	69				
4	81	76	72	68	80	75	71	68	73	70	67	72	69	66	70	68	66	64				
5	78	71	67	64	76	71	67	63	69	66	63	68	65	62	67	64	62	61				
6	74	68	63	60	73	67	63	60	66	62	59	65	61	59	64	61	58	57				
7	71	64	59	56	70	63	59	56	62	58	56	61	58	55	61	57	55	54				
8	68	61	56	53	67	60	56	53	59	55	53	58	55	52	58	55	52	51				
9	65	58	53	50	64	57	53	50	56	53	50	56	52	50	55	52	49	48				
10	62	55	50	47	61	54	50	47	54	50	47	53	50	47	53	49	47	46				

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

	0°
0°	88324
5°	86910
10°	77222
15°	63714
20°	53637
25°	45252
30°	33876
35°	19161
40°	7564
45°	2041
50°	393
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°	256.9	14.3	11.8	0°	2864	
10°-20°	560.0	31.2	25.7	5°	2808	257
20°-30°	599.8	33.4	27.5	15°	1996	560
30°-40°	325.0	18.1	14.9	25°	1330	600
40°-50°	50.6	2.8	2.3	35°	509	325
50°-60°	1.3	0.1	0.1	45°	47	51
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°	1416.7	79.0	64.9	165°	0	0
0°-40°	1741.8	97.1	79.8	175°	0	0
0°-60°	1793.7	100.0	82.2	180°	0	0
0°-90°	1794.0	100.0	82.2			
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°	1794.0	100.0	82.2			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2864.3
2.5°	2861.9
5°	2807.7
7.5°	2673.8
10°	2466.2
12.5°	2223.1
15°	1995.8
17.5°	1802.8
20°	1634.5
22.5°	1483.5
25°	1330.0
27.5°	1155.9
30°	951.4
32.5°	725.7
35°	509.0
37.5°	326.0
40°	187.9
42.5°	100.2
45°	46.8
47.5°	25.5
50°	8.2
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)