

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: P249898

Luminaire Tested: **LD8B100D010 ER8B100850 8LBM0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249898  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13954)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B100D010 ER8B100850 8LBM0H  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10711.9 lumens  
Efficiency: N/A  
Efficacy: 100.8 lumens/watt  
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.93  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

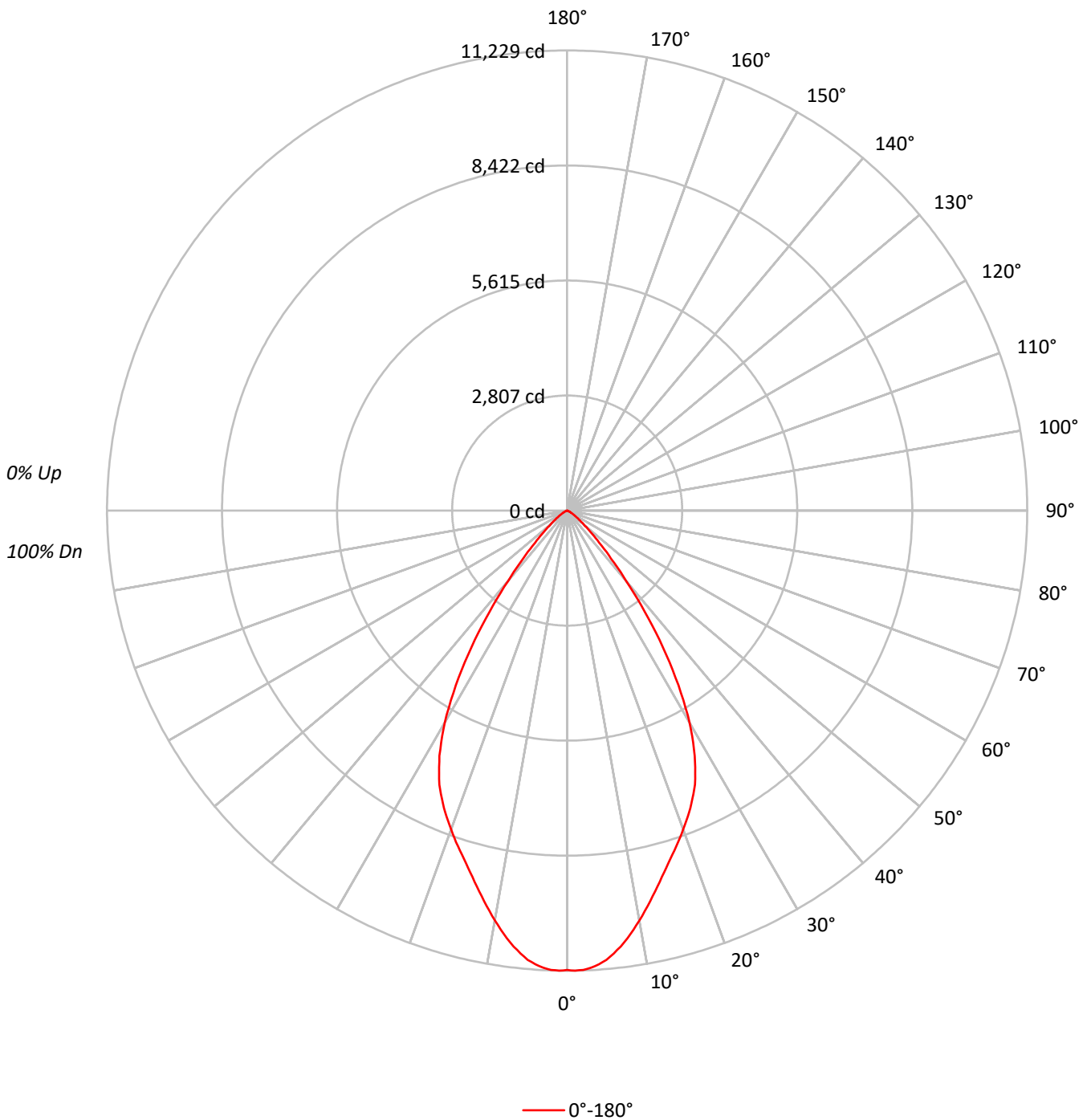
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	113	110	108	105	111	108	106	104	104	102	101		100	99	98		97	96	95	93
2	107	102	98	94	105	100	97	93	97	94	91		94	92	89		91	89	87	86
3	101	95	90	85	99	93	89	85	91	87	83		88	85	82		86	83	81	79
4	96	88	82	78	94	87	82	77	85	80	76		83	79	76		81	77	75	73
5	91	82	76	71	89	81	75	71	79	74	70		78	73	70		76	72	69	68
6	86	77	70	66	84	76	70	66	74	69	65		73	68	65		71	67	64	63
7	81	72	65	61	80	71	65	61	70	64	60		68	64	60		67	63	60	58
8	77	67	61	57	76	67	61	56	65	60	56		64	60	56		63	59	56	54
9	73	63	57	53	72	63	57	53	62	56	53		61	56	52		60	55	52	51
10	70	60	53	49	69	59	53	49	58	53	49		57	53	49		57	52	49	48

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

	0°
0°	345737
5°	340647
10°	317911
15°	291809
20°	271780
25°	251098
30°	212935
35°	153182
40°	90237
45°	48223
50°	25162
55°	14188
60°	7832
65°	4633
70°	2110
75°	1191
80°	586
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1022.2	9.5
10°-20°	2571.8	24.0
20°-30°	3338.7	31.2
30°-40°	2520.0	23.5
40°-50°	922.1	8.6
50°-60°	257.7	2.4
60°-70°	67.7	0.6
70°-80°	11.4	0.1
80°-90°	0.4	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	6932.6	64.7
0°-40°	9452.6	88.2
0°-60°	10632.4	99.3
0°-90°	10711.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10711.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	11212	
5°	11005	###
15°	9141	2572
25°	7380	3339
35°	4069	2520
45°	1106	922
55°	264	258
65°	64	68
75°	10	11
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	11212.0
1°	11228.7
2°	11215.4
3°	11171.9
4°	11098.4
5°	11004.9
6°	10867.9
7°	10717.6
8°	10543.9
9°	10353.4
10°	10153.0
11°	9952.5
12°	9745.4
13°	9534.9
14°	9334.4
15°	9140.7
16°	8956.9
17°	8779.9
18°	8619.5
19°	8452.5
20°	8282.1
22.5°	7857.8
25°	7380.0
27.5°	6748.6
30°	5980.2
32.5°	5054.8
35°	4069.2
37.5°	3107.0
40°	2241.7
42.5°	1586.9
45°	1105.8
47.5°	778.4
50°	524.5
52.5°	384.2
55°	263.9
57.5°	190.4
60°	127.0
62.5°	93.5
65°	63.5
67.5°	43.4
70°	23.4
72.5°	16.7
75°	10.0
77.5°	3.3
80°	3.3



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**CANDELA DISTRIBUTION (continued):**

	0°
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)