

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: P249790

Luminaire Tested: **LD8B200D010 ER8B200827 8LBN0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249790  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13959)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B200D010 ER8B200827 8LBN0H  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17792.9 lumens  
Efficiency: N/A  
Efficacy: 79.7 lumens/watt  
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.81  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

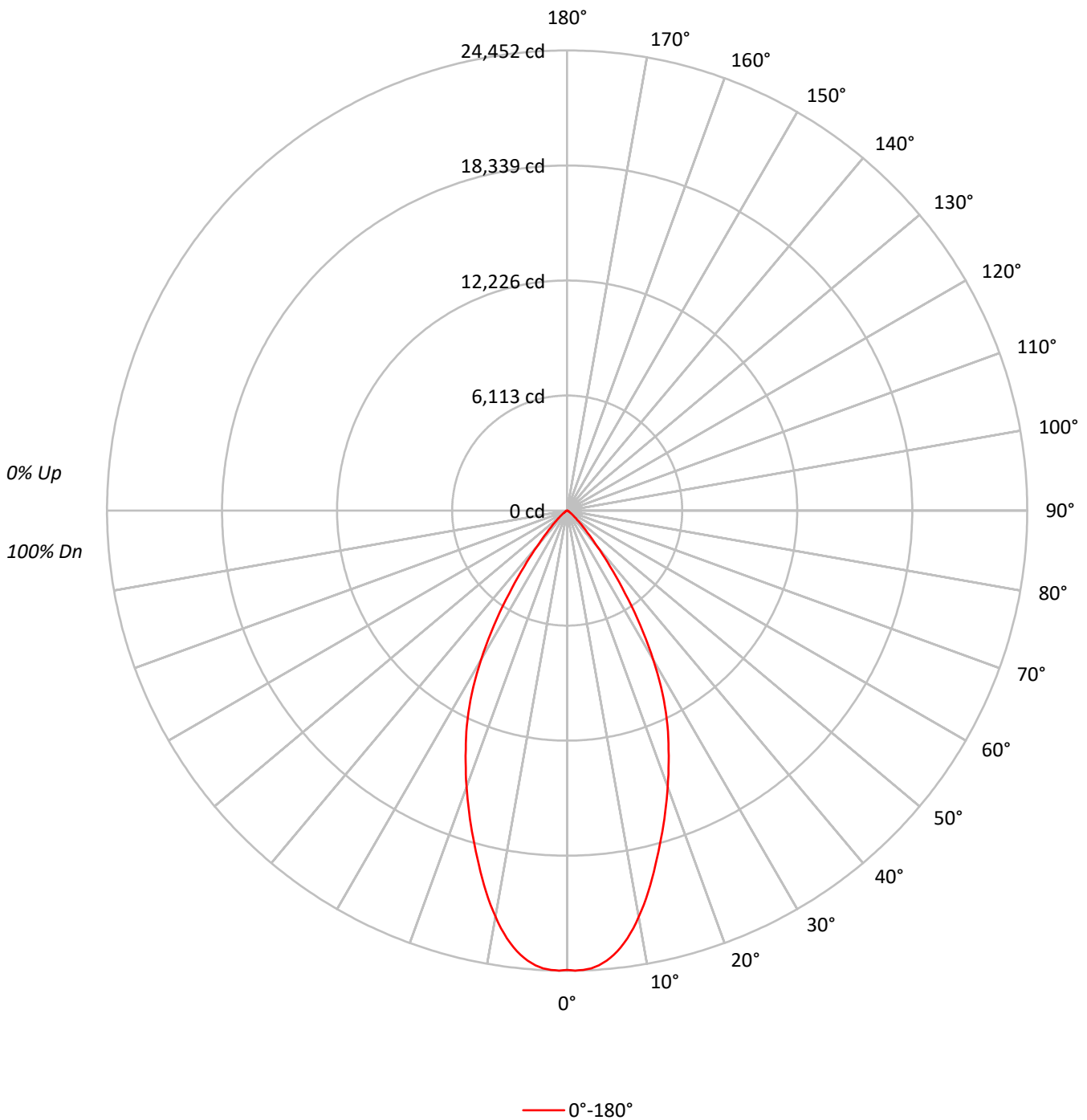
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	114	111	109	106	111	109	107	105	105	103	101		101	100	98		98	97	96	94
2	108	103	100	96	106	102	98	95	99	96	93		96	93	91		93	91	89	88
3	103	97	92	88	101	95	91	87	93	89	86		90	87	85		88	85	83	82
4	98	91	85	81	96	89	84	81	87	83	80		85	82	79		83	80	78	76
5	93	85	79	75	92	84	79	75	82	78	74		81	77	74		79	76	73	71
6	89	80	74	70	87	79	74	70	78	73	69		76	72	69		75	71	68	67
7	84	75	70	66	83	75	69	65	74	69	65		72	68	65		71	67	64	63
8	81	71	65	62	79	71	65	61	70	65	61		69	64	61		68	64	61	59
9	77	68	62	58	76	67	62	58	66	61	58		65	61	57		64	60	57	56
10	73	64	58	55	72	64	58	55	63	58	54		62	57	54		61	57	54	53

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

	0°
0°	752539
5°	743298
10°	686469
15°	598586
20°	512746
25°	429201
30°	326528
35°	202413
40°	99862
45°	47530
50°	23108
55°	11328
60°	7055
65°	4830
70°	2714
75°	2156
80°	2131
85°	2123



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2225.4	12.5
10°-20°	5224.5	29.4
20°-30°	5710.2	32.1
30°-40°	3398.0	19.1
40°-50°	932.1	5.2
50°-60°	211.1	1.2
60°-70°	65.2	0.4
70°-80°	19.8	0.1
80°-90°	6.5	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°	13160.1	74.0
0°-40°	16558.2	93.1
0°-60°	17701.4	99.5
0°-90°	17792.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17792.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	24404	
5°	24013	###
15°	18750	5225
25°	12615	5710
35°	5377	3398
45°	1090	932
55°	211	211
65°	66	65
75°	18	20
85°	6	7
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	24404.3
1°	24452.4
2°	24422.3
3°	24362.1
4°	24223.6
5°	24012.9
6°	23741.9
7°	23380.6
8°	22959.1
9°	22471.4
10°	21923.5
11°	21339.4
12°	20713.2
13°	20068.9
14°	19400.6
15°	18750.3
16°	18112.0
17°	17485.8
18°	16859.6
19°	16233.4
20°	15625.2
22.5°	14095.8
25°	12614.6
27.5°	10982.8
30°	9170.4
32.5°	7225.5
35°	5377.0
37.5°	3739.2
40°	2480.8
42.5°	1625.7
45°	1089.9
47.5°	722.6
50°	481.7
52.5°	295.0
55°	210.7
57.5°	150.5
60°	114.4
62.5°	84.3
65°	66.2
67.5°	42.1
70°	30.1
72.5°	24.1
75°	18.1
77.5°	12.0
80°	12.0



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**CANDELA DISTRIBUTION (continued):**

	0°
82.5°	6.0
85°	6.0
87.5°	6.0
90°	0.0

(END OF REPORT)