

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: P249853

Luminaire Tested: **LD8B200D010 ER8B200950 8LBN0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249853  
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 ER8B200950 8LBN0H  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17490.0 lumens  
Efficiency: N/A  
Efficacy: 78.3 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

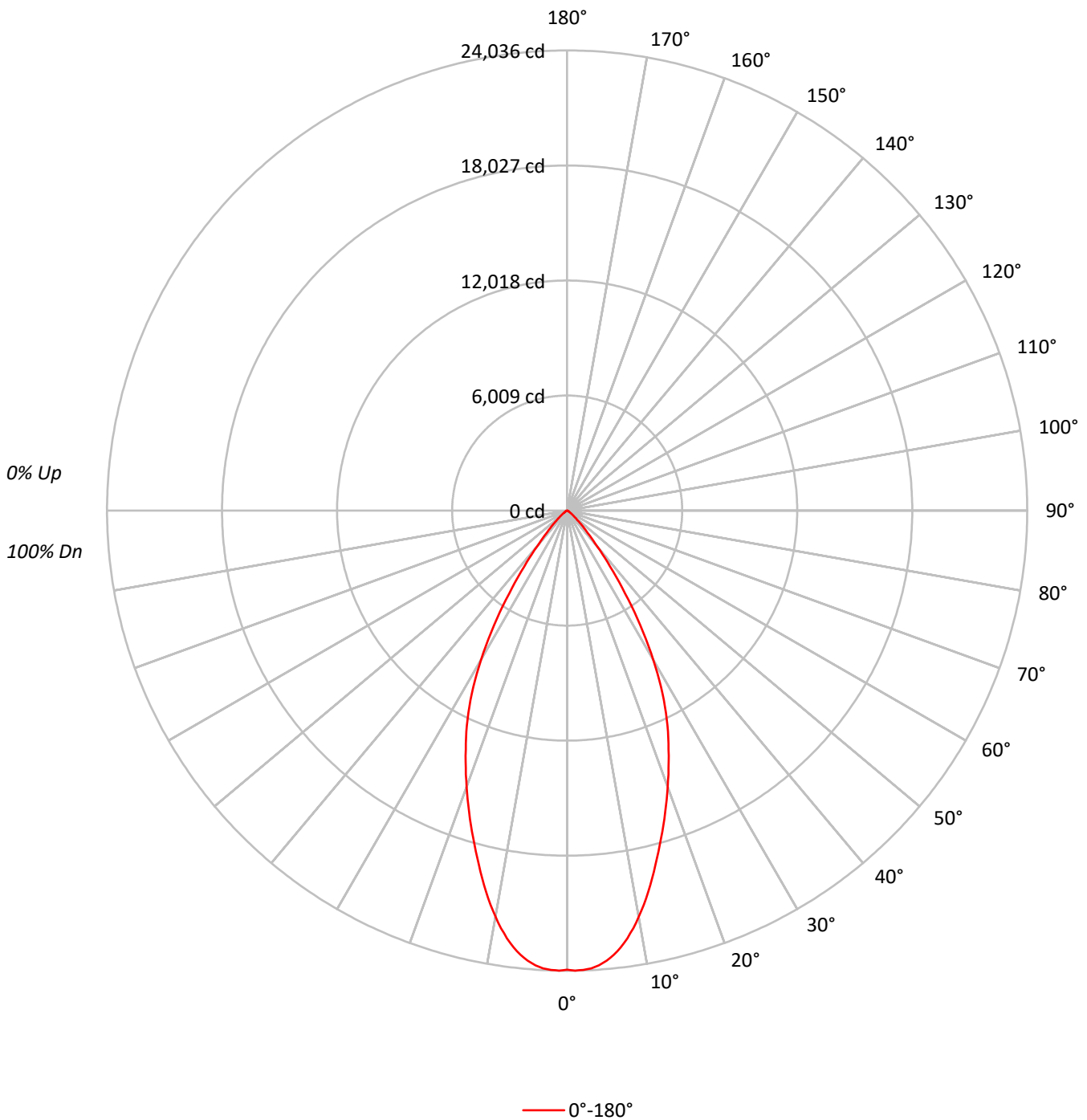
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	739723
5°	730641
10°	674777
15°	588393
20°	504014
25°	421892
30°	320966
35°	198965
40°	98159
45°	46718
50°	22715
55°	11139
60°	6938
65°	4750
70°	2669
75°	2121
80°	2095
85°	2087



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2187.5	12.5
10°-20°	5135.6	29.4
20°-30°	5613.0	32.1
30°-40°	3340.2	19.1
40°-50°	916.2	5.2
50°-60°	207.6	1.2
60°-70°	64.1	0.4
70°-80°	19.5	0.1
80°-90°	6.4	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°	12936.0	74.0
0°-40°	16276.2	93.1
0°-60°	17400.0	99.5
0°-90°	17490.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17490.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	23989	
5°	23604	###
15°	18431	5136
25°	12400	5613
35°	5285	3340
45°	1071	916
55°	207	208
65°	65	64
75°	18	19
85°	6	6
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	23988.7
1°	24036.0
2°	24006.4
3°	23947.2
4°	23811.1
5°	23604.0
6°	23337.6
7°	22982.5
8°	22568.2
9°	22088.8
10°	21550.1
11°	20976.0
12°	20360.5
13°	19727.2
14°	19070.2
15°	18431.0
16°	17803.6
17°	17188.0
18°	16572.5
19°	15956.9
20°	15359.1
22.5°	13855.8
25°	12399.8
27.5°	10795.8
30°	9014.2
32.5°	7102.5
35°	5285.4
37.5°	3675.5
40°	2438.5
42.5°	1598.1
45°	1071.3
47.5°	710.2
50°	473.5
52.5°	290.0
55°	207.2
57.5°	148.0
60°	112.5
62.5°	82.9
65°	65.1
67.5°	41.4
70°	29.6
72.5°	23.7
75°	17.8
77.5°	11.8
80°	11.8



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**CANDELA DISTRIBUTION (continued):**

	0°
82.5°	5.9
85°	5.9
87.5°	5.9
90°	0.0

(END OF REPORT)