

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: P249803

Luminaire Tested: **LD8B175D010 ER8B175835 8LBN0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249803  
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: LD8B175D010 ER8B175835 8LBN0H  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16089.9 lumens  
Efficiency: N/A  
Efficacy: 90.8 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

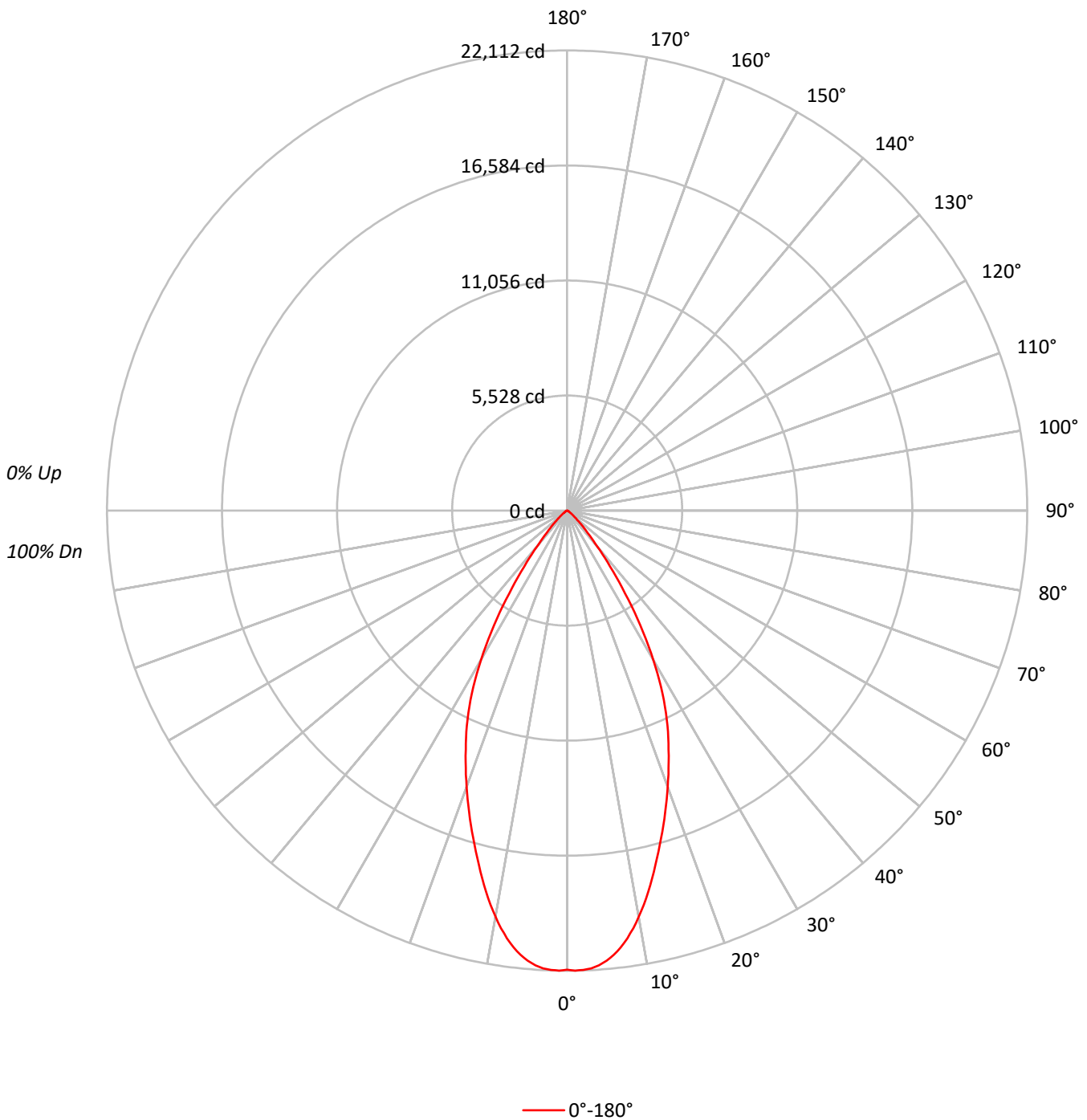
Input Watts (W): 177.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	680511
5°	672156
10°	620767
15°	541295
20°	463671
25°	388120
30°	295276
35°	183041
40°	90302
45°	42977
50°	20897
55°	10247
60°	6383
65°	4371
70°	2452
75°	1942
80°	1936
85°	1911



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2012.4	12.5
10°-20°	4724.5	29.4
20°-30°	5163.7	32.1
30°-40°	3072.8	19.1
40°-50°	842.8	5.2
50°-60°	191.0	1.2
60°-70°	59.0	0.4
70°-80°	17.9	0.1
80°-90°	5.9	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°	11900.5	74.0
0°-40°	14973.4	93.1
0°-60°	16007.2	99.5
0°-90°	16089.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16089.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	22068	
5°	21715	###
15°	16956	4724
25°	11407	5164
35°	4862	3073
45°	986	843
55°	191	191
65°	60	59
75°	16	18
85°	5	6
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	22068.5
1°	22112.0
2°	22084.8
3°	22030.4
4°	21905.1
5°	21714.6
6°	21469.5
7°	21142.8
8°	20761.7
9°	20320.6
10°	19825.2
11°	19297.0
12°	18730.7
13°	18148.1
14°	17543.7
15°	16955.7
16°	16378.5
17°	15812.2
18°	15245.9
19°	14679.7
20°	14129.7
22.5°	12746.7
25°	11407.2
27.5°	9931.6
30°	8292.7
32.5°	6534.0
35°	4862.4
37.5°	3381.3
40°	2243.3
42.5°	1470.1
45°	985.5
47.5°	653.4
50°	435.6
52.5°	266.8
55°	190.6
57.5°	136.1
60°	103.5
62.5°	76.2
65°	59.9
67.5°	38.1
70°	27.2
72.5°	21.8
75°	16.3
77.5°	10.9
80°	10.9



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**CANDELA DISTRIBUTION (continued):**

	0°
82.5°	5.4
85°	5.4
87.5°	5.4
90°	0.0

(END OF REPORT)