

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: P250776

Luminaire Tested: **LD8B175D010 ER8B175950 8LBM0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250776  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13935)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B175D010 ER8B175950 8LBM0MW  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 5000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16742.1 lumens  
Efficiency: N/A  
Efficacy: 94.5 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.93  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

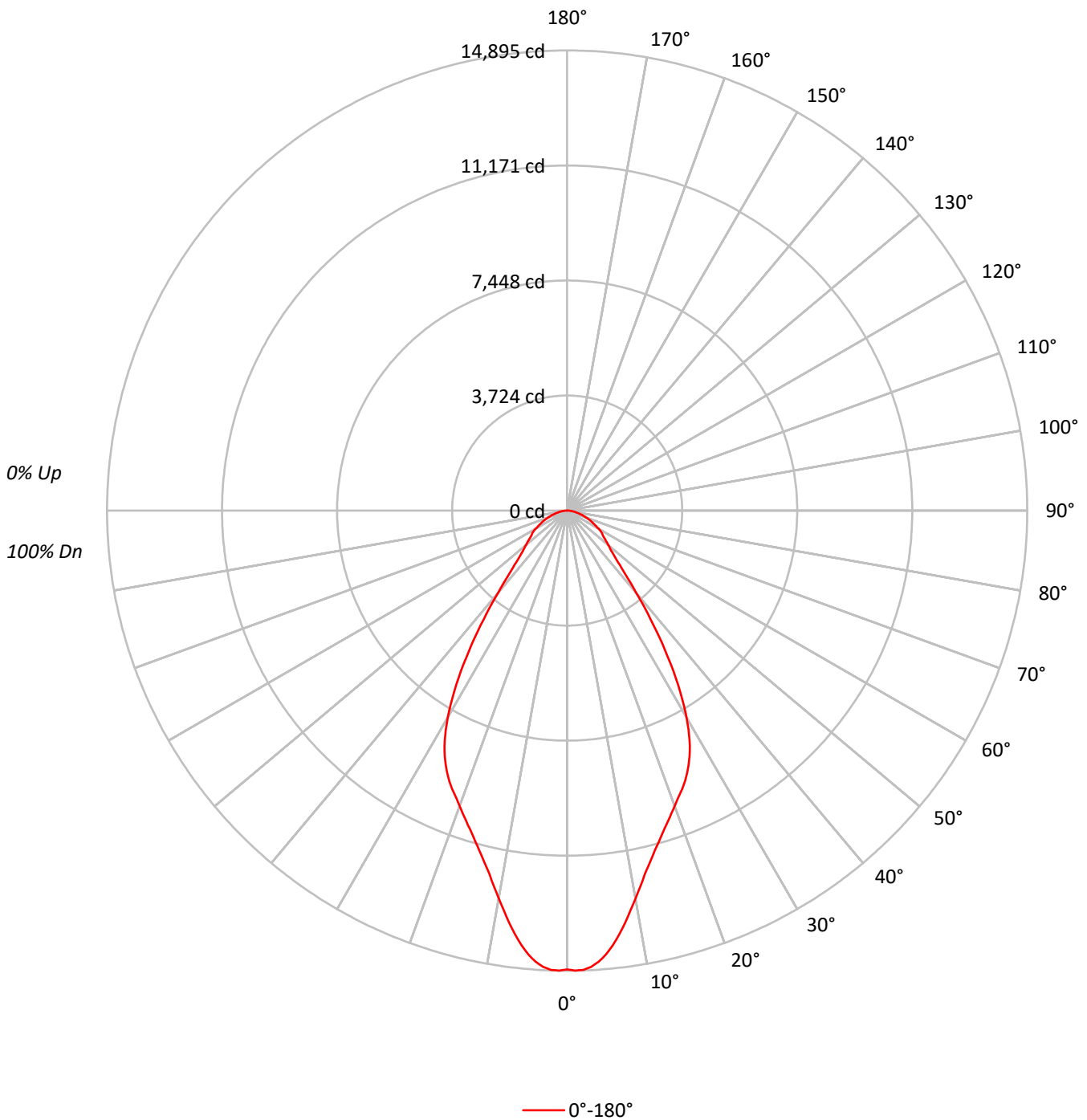
Input Watts (W): 177.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	100	102	99	97		98	96	94		94	93	91	89
2	104	98	93	88	102	96	91	87	93	89	85		90	86	83		87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76		82	78	75		80	76	73	71
4	91	82	75	69	89	80	74	69	78	72	68		76	71	67		74	70	66	65
5	85	75	68	63	83	74	67	62	72	66	62		70	65	61		69	64	60	59
6	80	69	62	57	78	68	62	57	67	61	56		65	60	56		64	59	55	54
7	75	64	57	52	74	64	57	52	62	56	52		61	55	51		60	55	51	49
8	71	60	53	48	70	59	53	48	58	52	48		57	51	47		56	51	47	46
9	67	56	49	44	66	56	49	44	54	48	44		54	48	44		53	48	44	42
10	64	53	46	41	63	52	46	41	51	45	41		50	45	41		50	45	41	39

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

	0°
0°	457950
5°	446352
10°	399040
15°	358594
20°	333952
25°	314611
30°	275090
35°	208413
40°	139995
45°	98648
50°	83655
55°	76304
60°	72293
65°	65034
70°	58513
75°	52518
80°	46455
85°	44580



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1319.8	7.9
10°-20°	3167.8	18.9
20°-30°	4197.9	25.1
30°-40°	3442.3	20.6
40°-50°	1833.4	11.0
50°-60°	1290.4	7.7
60°-70°	889.8	5.3
70°-80°	463.4	2.8
80°-90°	137.1	0.8
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°	8685.5	51.9
0°-40°	12127.9	72.4
0°-60°	15251.7	91.1
0°-90°	16742.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16742.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	14851	
5°	14420	###
15°	11233	3168
25°	9247	4198
35°	5536	3442
45°	2262	1833
55°	1419	1290
65°	891	890
75°	441	463
85°	126	137
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	14851.0
1°	14894.6
2°	14875.2
3°	14788.0
4°	14637.9
5°	14419.8
6°	14148.7
7°	13824.2
8°	13475.4
9°	13102.4
10°	12744.0
11°	12400.0
12°	12051.2
13°	11760.6
14°	11484.6
15°	11232.7
16°	10995.4
17°	10777.4
18°	10573.9
19°	10370.5
20°	10176.7
21°	9987.8
22°	9823.2
23°	9653.6
24°	9455.1
25°	9246.7
26°	9009.4
27°	8743.0
28°	8442.7
29°	8108.5
30°	7725.8
31°	7323.8
32°	6902.4
33°	6451.9
34°	6001.4
35°	5536.4
37.5°	4436.9
40°	3477.8
42.5°	2746.4
45°	2262.1
47.5°	1942.4
50°	1743.8
52.5°	1569.4
55°	1419.3
57.5°	1327.2



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	1172.2
62.5°	1022.0
65°	891.3
67.5°	775.0
70°	649.0
72.5°	542.5
75°	440.8
77.5°	319.6
80°	261.6
82.5°	188.9
85°	126.0
87.5°	58.1
90°	0.0

(END OF REPORT)