

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: P249817

Luminaire Tested: **LD8B175D010 ER8B175850 8LBN0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249817  
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 ER8B175850 8LBN0H  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16297.9 lumens  
Efficiency: N/A  
Efficacy: 92.0 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

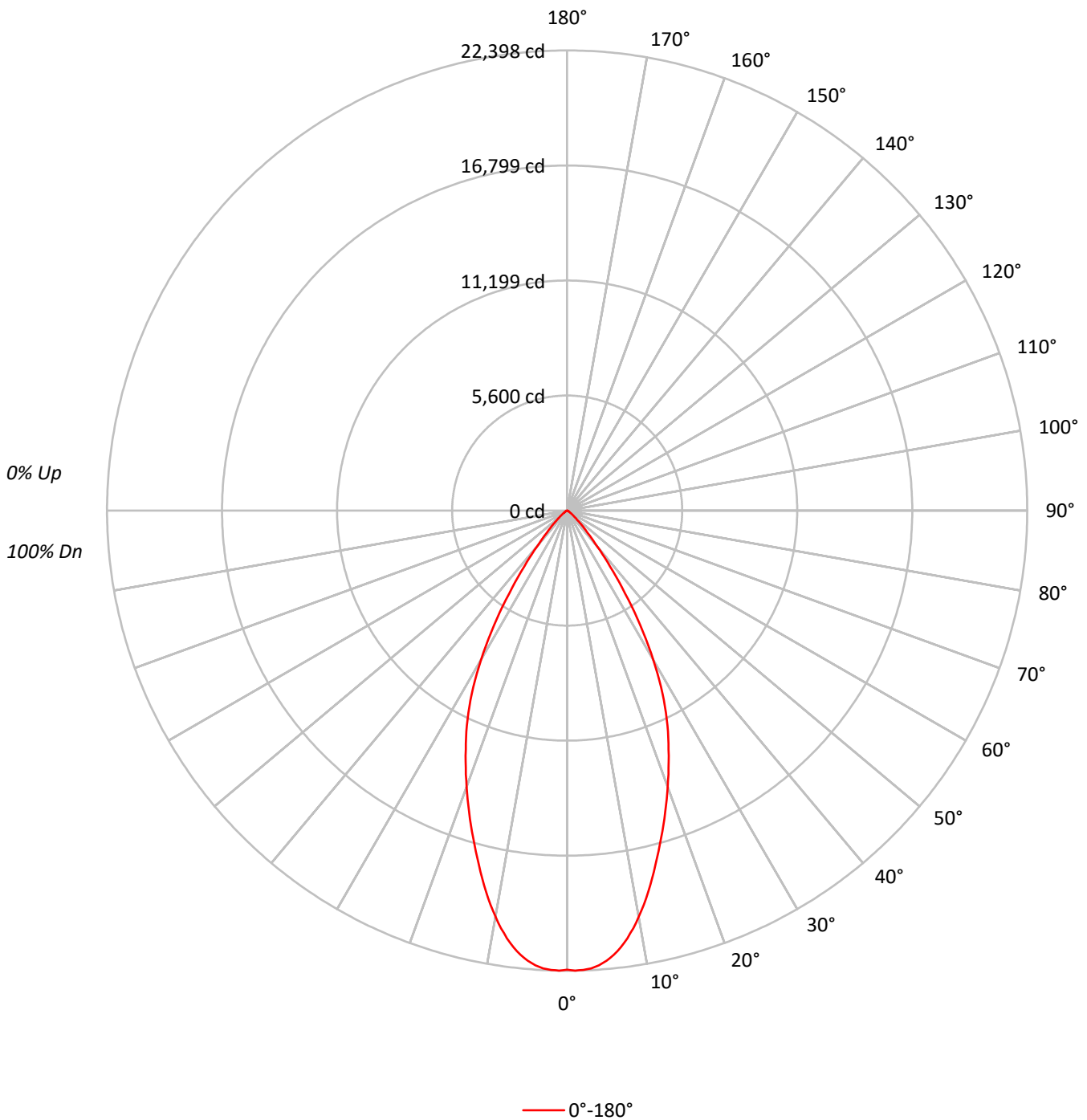
Input Watts (W): 177.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	689309
5°	680845
10°	628789
15°	548290
20°	469666
25°	393138
30°	299093
35°	185405
40°	91469
45°	43535
50°	21166
55°	10376
60°	6463
65°	4429
70°	2488
75°	1966
80°	1953
85°	1946



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2038.4	12.5
10°-20°	4785.6	29.4
20°-30°	5230.4	32.1
30°-40°	3112.5	19.1
40°-50°	853.7	5.2
50°-60°	193.4	1.2
60°-70°	59.7	0.4
70°-80°	18.1	0.1
80°-90°	6.0	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°	12054.4	74.0
0°-40°	15166.9	93.1
0°-60°	16214.1	99.5
0°-90°	16297.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16297.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	22354	
5°	21995	###
15°	17175	4786
25°	11555	5230
35°	4925	3113
45°	998	854
55°	193	193
65°	61	60
75°	16	18
85°	6	6
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	22353.8
1°	22397.9
2°	22370.3
3°	22315.2
4°	22188.3
5°	21995.3
6°	21747.1
7°	21416.2
8°	21030.1
9°	20583.3
10°	20081.4
11°	19546.4
12°	18972.8
13°	18382.7
14°	17770.5
15°	17174.8
16°	16590.2
17°	16016.6
18°	15443.0
19°	14869.4
20°	14312.4
22.5°	12911.5
25°	11554.7
27.5°	10060.0
30°	8399.9
32.5°	6618.4
35°	4925.2
37.5°	3425.0
40°	2272.3
42.5°	1489.1
45°	998.3
47.5°	661.8
50°	441.2
52.5°	270.3
55°	193.0
57.5°	137.9
60°	104.8
62.5°	77.2
65°	60.7
67.5°	38.6
70°	27.6
72.5°	22.1
75°	16.5
77.5°	11.0
80°	11.0



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**CANDELA DISTRIBUTION (continued):**

	0°
82.5°	5.5
85°	5.5
87.5°	5.5
90°	0.0

(END OF REPORT)