

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: P249842

Luminaire Tested: **LD8B100D010 ER8B100940 8LBN0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249842  
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: LD8B100D010 ER8B100940 8LBN0H  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8725.0 lumens  
Efficiency: N/A  
Efficacy: 82.1 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

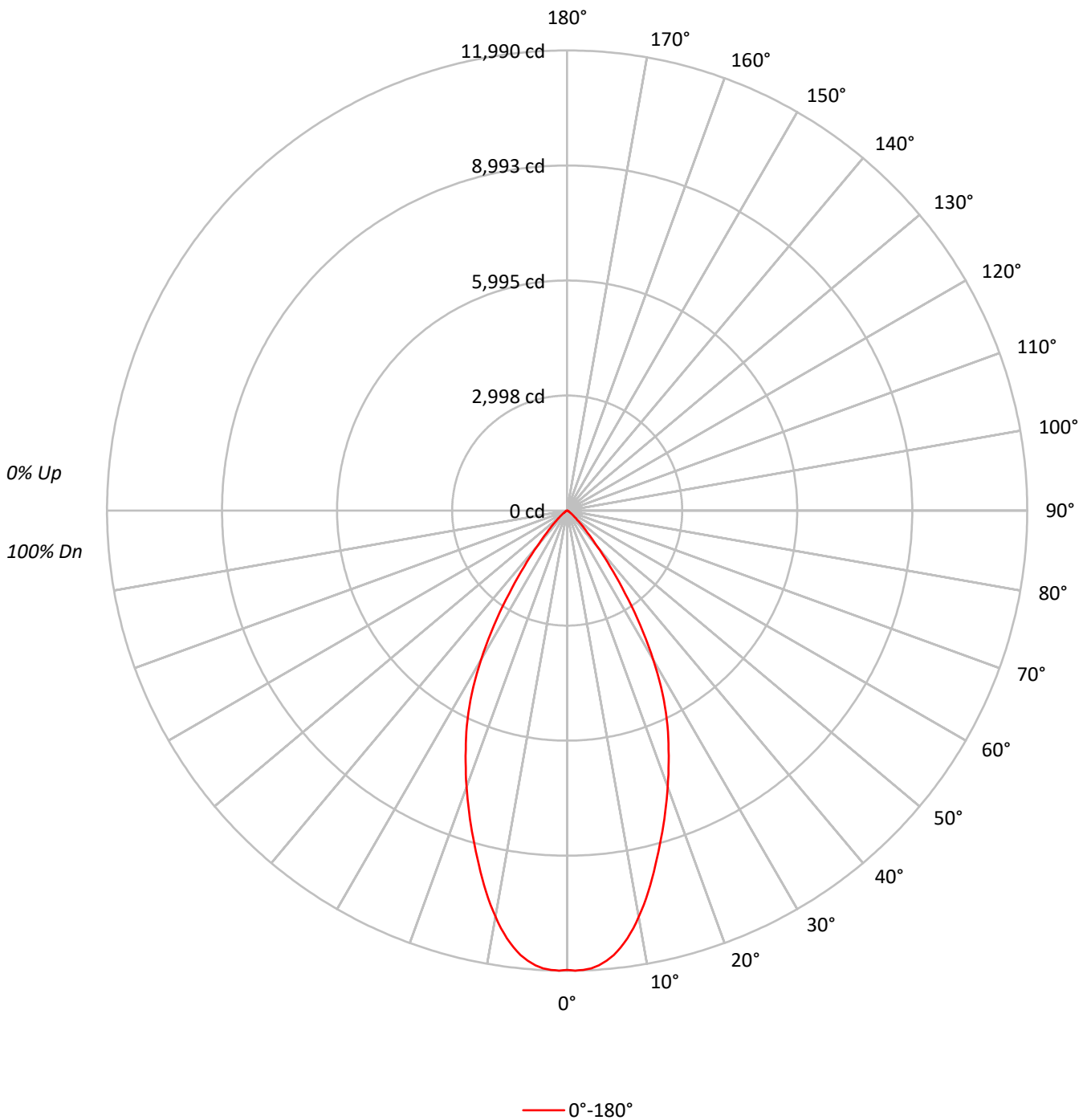
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	369015
5°	364485
10°	336617
15°	293523
20°	251431
25°	210463
30°	160116
35°	99256
40°	48969
45°	23305
50°	11331
55°	5554
60°	3460
65°	2371
70°	1334
75°	1060
80°	1048
85°	1061



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1091.2	12.5
10°-20°	2561.9	29.4
20°-30°	2800.1	32.1
30°-40°	1666.3	19.1
40°-50°	457.0	5.2
50°-60°	103.5	1.2
60°-70°	32.0	0.4
70°-80°	9.7	0.1
80°-90°	3.3	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°	6453.2	74.0
0°-40°	8119.5	93.1
0°-60°	8680.1	99.5
0°-90°	8725.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8725.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	11967	
5°	11775	###
15°	9194	2562
25°	6186	2800
35°	2637	1666
45°	534	457
55°	103	104
65°	32	32
75°	9	10
85°	3	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	11966.9
1°	11990.5
2°	11975.8
3°	11946.2
4°	11878.3
5°	11775.0
6°	11642.1
7°	11465.0
8°	11258.3
9°	11019.1
10°	10750.4
11°	10464.0
12°	10157.0
13°	9841.0
14°	9513.3
15°	9194.4
16°	8881.4
17°	8574.4
18°	8267.3
19°	7960.2
20°	7662.0
22.5°	6912.0
25°	6185.7
27.5°	5385.6
30°	4496.8
32.5°	3543.1
35°	2636.7
37.5°	1833.6
40°	1216.5
42.5°	797.2
45°	534.4
47.5°	354.3
50°	236.2
52.5°	144.7
55°	103.3
57.5°	73.8
60°	56.1
62.5°	41.3
65°	32.5
67.5°	20.7
70°	14.8
72.5°	11.8
75°	8.9
77.5°	5.9
80°	5.9



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**CANDELA DISTRIBUTION (continued):**

	0°
82.5°	3.0
85°	3.0
87.5°	3.0
90°	0.0

(END OF REPORT)