

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: P249815

Luminaire Tested: **LD8B120D010 ER8B120850 8LBN0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249815  
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: LD8B120D010 ER8B120850 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: 11248.0 lumens  
Efficiency: N/A  
Efficacy: 95.1 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

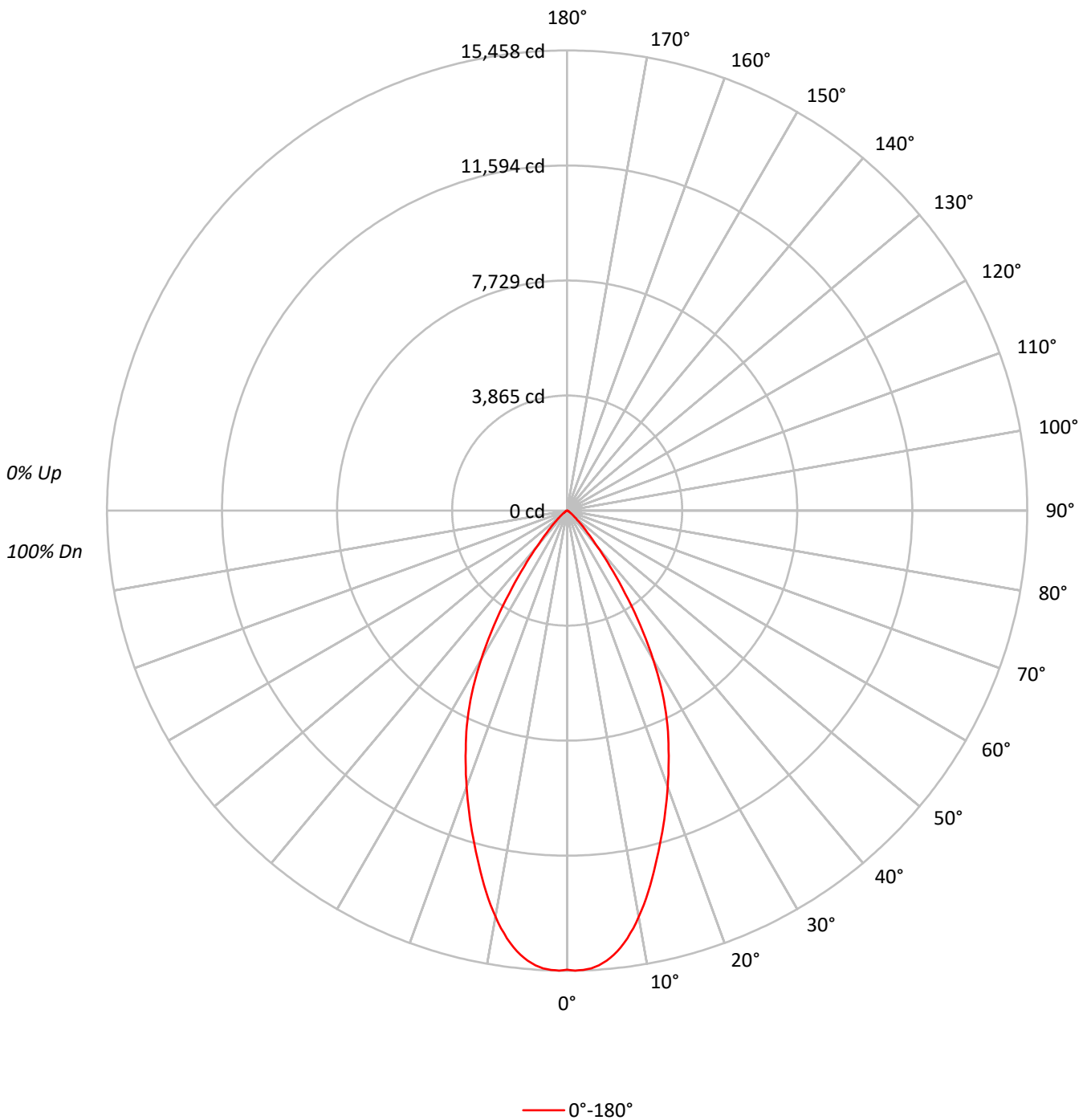
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	475724
5°	469880
10°	433956
15°	378400
20°	324137
25°	271322
30°	206419
35°	127956
40°	63126
45°	30047
50°	14608
55°	7161
60°	4459
65°	3057
70°	1713
75°	1358
80°	1350
85°	1344



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1406.8	12.5
10°-20°	3302.7	29.4
20°-30°	3609.8	32.1
30°-40°	2148.1	19.1
40°-50°	589.2	5.2
50°-60°	133.5	1.2
60°-70°	41.2	0.4
70°-80°	12.5	0.1
80°-90°	4.1	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°	8319.3	74.0
0°-40°	10467.4	93.1
0°-60°	11190.1	99.5
0°-90°	11248.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11248.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	15427	
5°	15180	###
15°	11853	3303
25°	7974	3610
35°	3399	2148
45°	689	589
55°	133	133
65°	42	41
75°	11	13
85°	4	4
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	15427.4
1°	15457.8
2°	15438.8
3°	15400.7
4°	15313.2
5°	15179.9
6°	15008.7
7°	14780.3
8°	14513.8
9°	14205.5
10°	13859.1
11°	13489.9
12°	13094.0
13°	12686.8
14°	12264.2
15°	11853.1
16°	11449.7
17°	11053.8
18°	10657.9
19°	10262.1
20°	9877.6
22.5°	8910.8
25°	7974.4
27.5°	6942.9
30°	5797.2
32.5°	4567.7
35°	3399.1
37.5°	2363.8
40°	1568.2
42.5°	1027.7
45°	689.0
47.5°	456.8
50°	304.5
52.5°	186.5
55°	133.2
57.5°	95.2
60°	72.3
62.5°	53.3
65°	41.9
67.5°	26.6
70°	19.0
72.5°	15.2
75°	11.4
77.5°	7.6
80°	7.6



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**CANDELA DISTRIBUTION (continued):**

	0°
82.5°	3.8
85°	3.8
87.5°	3.8
90°	0.0

(END OF REPORT)