

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: P249836

Luminaire Tested: **LD8B120D010 ER8B120935 8LBN0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249836  
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 ER8B120935 8LBN0H  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9470.0 lumens  
Efficiency: N/A  
Efficacy: 80.1 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

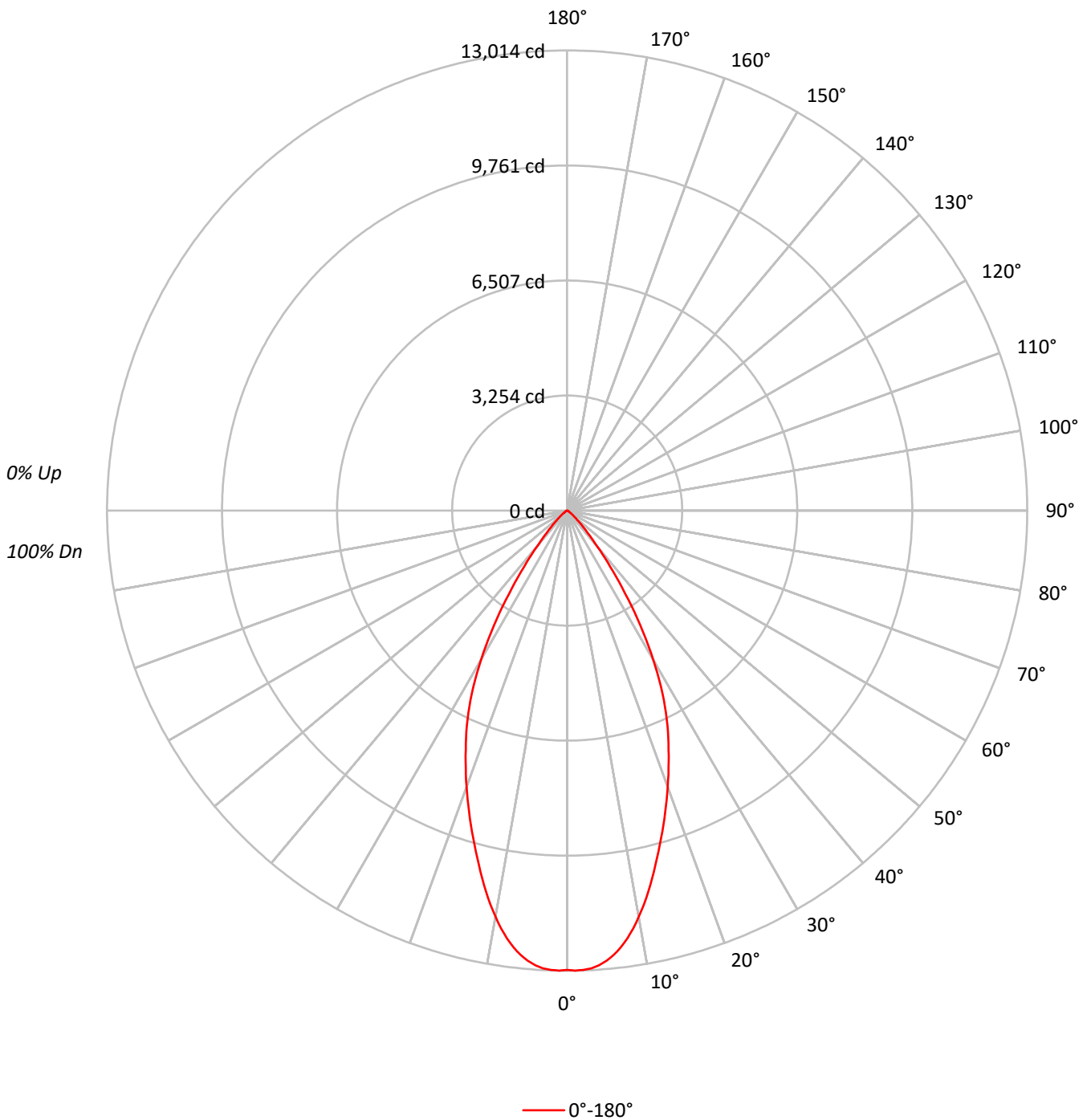
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	400524
5°	395606
10°	365361
15°	318587
20°	272899
25°	228434
30°	173789
35°	107730
40°	53147
45°	25298
50°	12300
55°	6032
60°	3756
65°	2576
70°	1443
75°	1144
80°	1137
85°	1132



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1184.4	12.5
10°-20°	2780.7	29.4
20°-30°	3039.1	32.1
30°-40°	1808.5	19.1
40°-50°	496.1	5.2
50°-60°	112.4	1.2
60°-70°	34.7	0.4
70°-80°	10.5	0.1
80°-90°	3.5	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°	7004.2	74.0
0°-40°	8812.8	93.1
0°-60°	9421.3	99.5
0°-90°	9470.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9470.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	12989	
5°	12780	###
15°	9980	2781
25°	6714	3039
35°	2862	1809
45°	580	496
55°	112	112
65°	35	35
75°	10	11
85°	3	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	12988.7
1°	13014.4
2°	12998.3
3°	12966.3
4°	12892.6
5°	12780.4
6°	12636.2
7°	12443.9
8°	12219.6
9°	11960.0
10°	11668.4
11°	11357.5
12°	11024.2
13°	10681.3
14°	10325.6
15°	9979.5
16°	9639.8
17°	9306.5
18°	8973.2
19°	8639.9
20°	8316.2
22.5°	7502.2
25°	6713.9
27.5°	5845.4
30°	4880.8
32.5°	3845.7
35°	2861.8
37.5°	1990.1
40°	1320.3
42.5°	865.3
45°	580.1
47.5°	384.6
50°	256.4
52.5°	157.0
55°	112.2
57.5°	80.1
60°	60.9
62.5°	44.9
65°	35.3
67.5°	22.4
70°	16.0
72.5°	12.8
75°	9.6
77.5°	6.4
80°	6.4



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**CANDELA DISTRIBUTION (continued):**

	0°
82.5°	3.2
85°	3.2
87.5°	3.2
90°	0.0

(END OF REPORT)