

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: P250403

Luminaire Tested: **LD8B120D010 ER8B120850 8LBN0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250403  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13948)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B120D010 ER8B120850 8LBN0B  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 5000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7375.0 lumens  
Efficiency: N/A  
Efficacy: 62.3 lumens/watt  
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.77  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

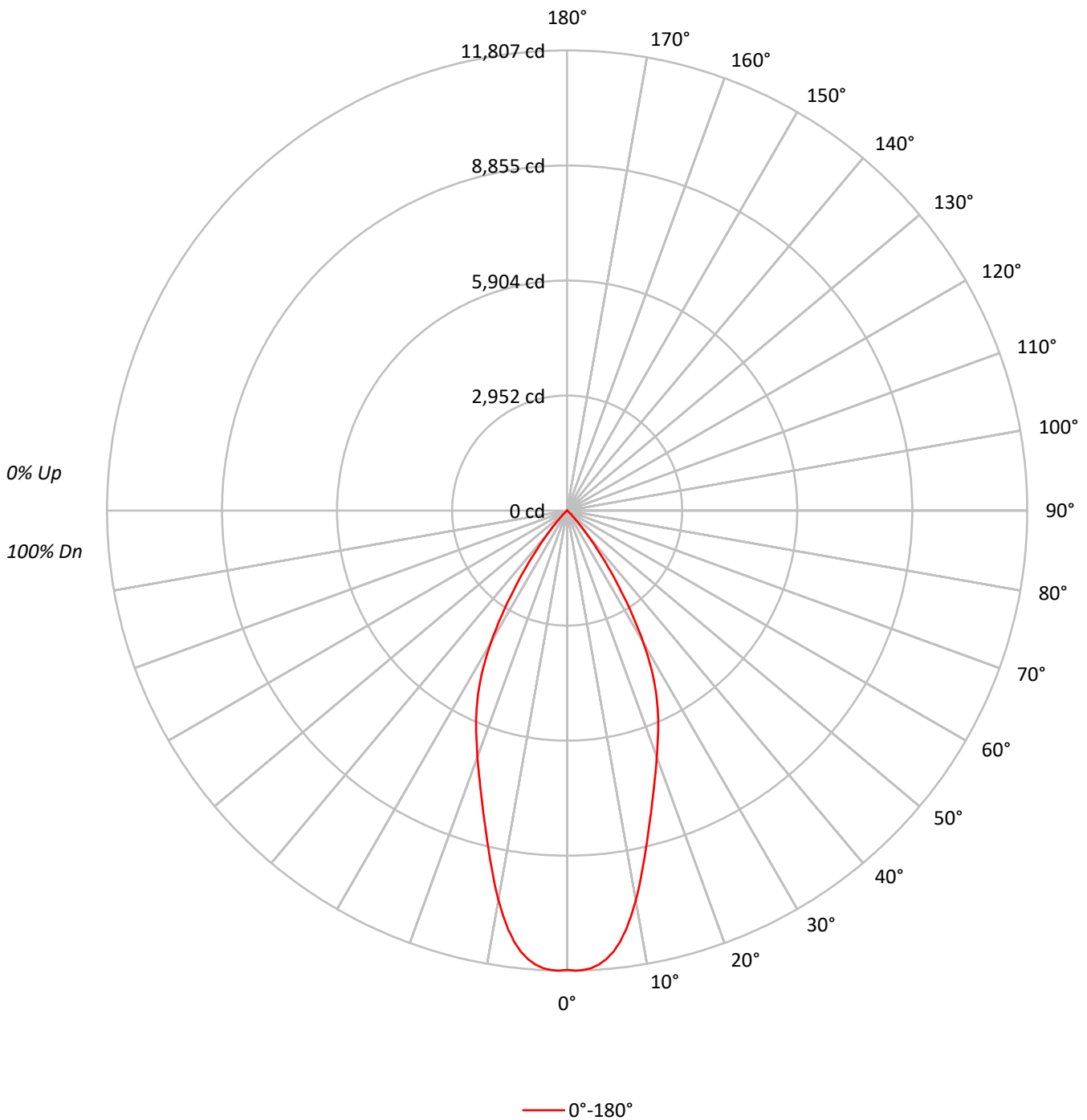
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	107	112	109	107	105	105	104	102	101	100	99	98	97	96	94
2	109	104	101	97	107	103	99	96	99	97	94	96	94	92	94	92	90	89
3	104	98	93	90	102	97	92	89	94	90	88	92	89	86	89	87	85	83
4	99	92	87	83	97	91	86	83	89	85	82	87	84	81	85	82	80	78
5	95	87	82	78	93	86	81	77	84	80	77	83	79	76	81	78	75	74
6	90	82	77	73	89	81	76	72	80	75	72	79	75	71	77	74	71	70
7	86	78	72	68	85	77	72	68	76	71	68	75	71	67	74	70	67	66
8	83	74	68	64	81	73	68	64	72	67	64	71	67	64	70	66	63	62
9	79	70	65	61	78	70	64	61	69	64	61	68	63	60	67	63	60	59
10	76	67	61	58	75	66	61	58	65	61	57	65	60	57	64	60	57	56

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

	0°
0°	363391
5°	357585
10°	317707
15°	262081
20°	220722
25°	186170
30°	139393
35°	78887
40°	31193
45°	8373
50°	1602
55°	0
60°	234
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1057.9	14.3
10°-20°	2299.3	31.2
20°-30°	2468.4	33.5
30°-40°	1334.1	18.1
40°-50°	208.1	2.8
50°-60°	5.7	0.1
60°-70°	1.4	0.0
70°-80°	0.0	0.0
80°-90°	0.0	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°	5825.6	79.0
0°-40°	7159.8	97.1
0°-60°	7373.6	100.0
0°-90°	7375.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7375.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	11784	
5°	11552	###
15°	8210	2299
25°	5472	2468
35°	2096	1334
45°	192	208
55°	0	6
65°	0	1
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	11784.5
1°	11806.9
2°	11795.8
3°	11755.4
4°	11677.8
5°	11552.1
6°	11379.0
7°	11146.2
8°	10854.8
9°	10519.4
10°	10146.5
11°	9755.3
12°	9349.4
13°	8943.9
14°	8567.2
15°	8209.5
16°	7881.0
17°	7563.7
18°	7268.5
19°	6992.1
20°	6726.2
21°	6467.9
22°	6224.2
23°	5981.0
24°	5726.4
25°	5471.7
26°	5213.3
27°	4918.3
28°	4593.4
29°	4261.8
30°	3914.8
31°	3542.2
32°	3169.2
33°	2800.4
34°	2427.8
35°	2095.6
37.5°	1339.3
40°	774.9
42.5°	413.4
45°	192.0
47.5°	103.5
50°	33.4
52.5°	3.8
55°	0.0
57.5°	3.8



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	3.8
62.5°	0.0
65°	0.0
67.5°	3.8
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)