

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: P249855

Luminaire Tested: **LD8B90D010 ER8B90927 8LBN0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249855  
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: LD8B90D010 ER8B90927 8LBN0H  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6651.0 lumens  
Efficiency: N/A  
Efficacy: 77.2 lumens/watt  
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.81  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

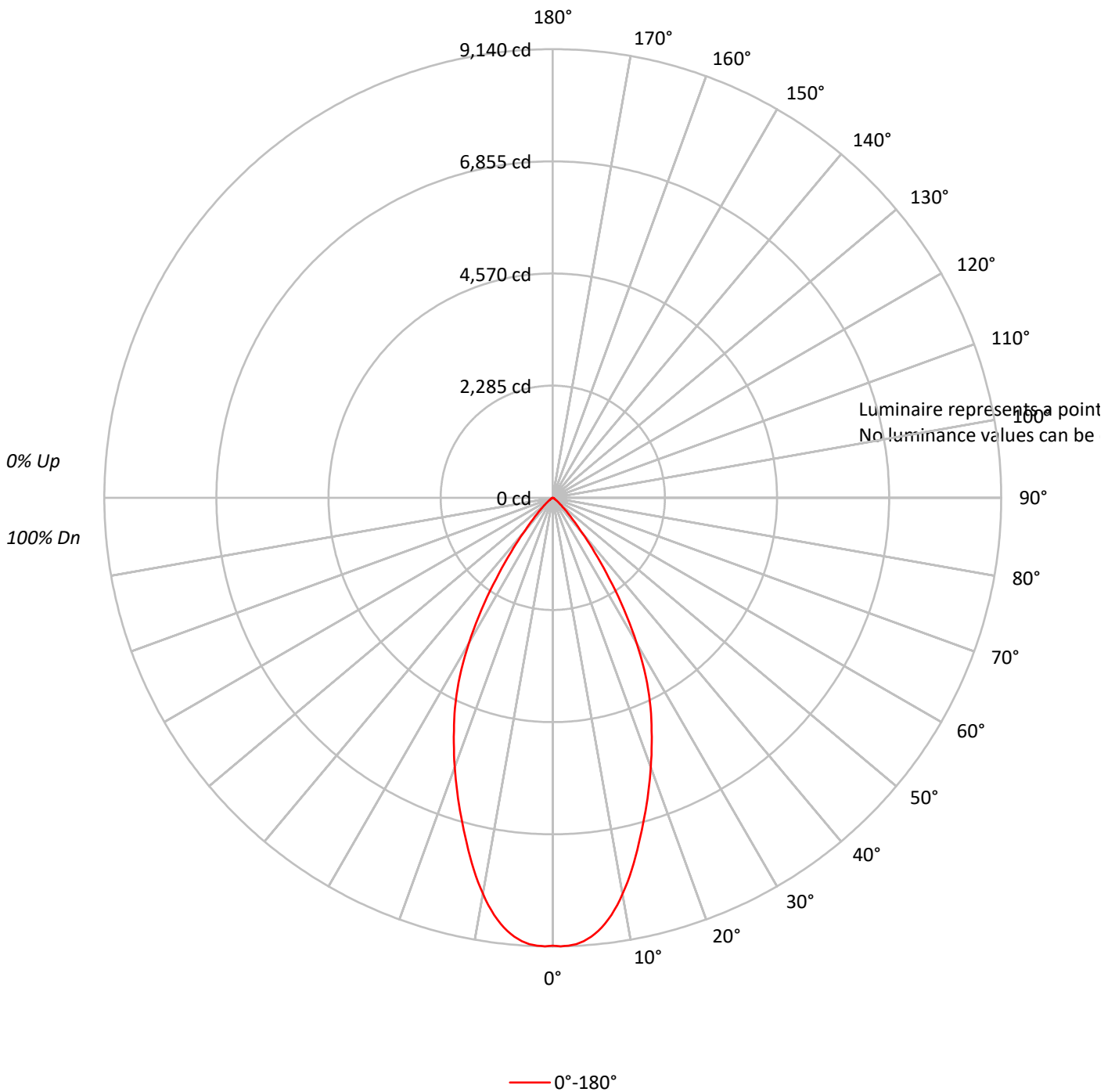
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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):**





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	831.8	12.5
10°-20°	1952.9	29.4
20°-30°	2134.5	32.1
30°-40°	1270.2	19.1
40°-50°	348.4	5.2
50°-60°	78.9	1.2
60°-70°	24.4	0.4
70°-80°	7.4	0.1
80°-90°	2.4	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°	4919.2	74.0
0°-40°	6189.4	93.1
0°-60°	6616.7	99.5
0°-90°	6651.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6651.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	9122	
5°	8976	832
15°	7009	1953
25°	4715	2134
35°	2010	1270
45°	407	348
55°	79	79
65°	25	24
75°	7	7
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	9122.3
1°	9140.3
2°	9129.0
3°	9106.5
4°	9054.8
5°	8975.9
6°	8874.7
7°	8739.7
8°	8582.1
9°	8399.8
10°	8194.9
11°	7976.7
12°	7742.6
13°	7501.7
14°	7251.9
15°	7008.9
16°	6770.2
17°	6536.1
18°	6302.1
19°	6068.0
20°	5840.7
22.5°	5269.0
25°	4715.3
27.5°	4105.3
30°	3427.9
32.5°	2700.9
35°	2009.9
37.5°	1397.7
40°	927.3
42.5°	607.7
45°	407.4
47.5°	270.1
50°	180.1
52.5°	110.2
55°	78.8
57.5°	56.2
60°	42.8
62.5°	31.5
65°	24.8
67.5°	15.8
70°	11.2
72.5°	9.0
75°	6.8
77.5°	4.5
80°	4.5



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**CANDELA DISTRIBUTION (continued):**

	0°
82.5°	2.2
85°	2.2
87.5°	2.2
90°	0.0

(END OF REPORT)