

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: P249792

Luminaire Tested: **LD8B90D010 ER8B90830 8LBN0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249792  
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 ER8B90830 8LBN0H  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8164.0 lumens  
Efficiency: N/A  
Efficacy: 94.8 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

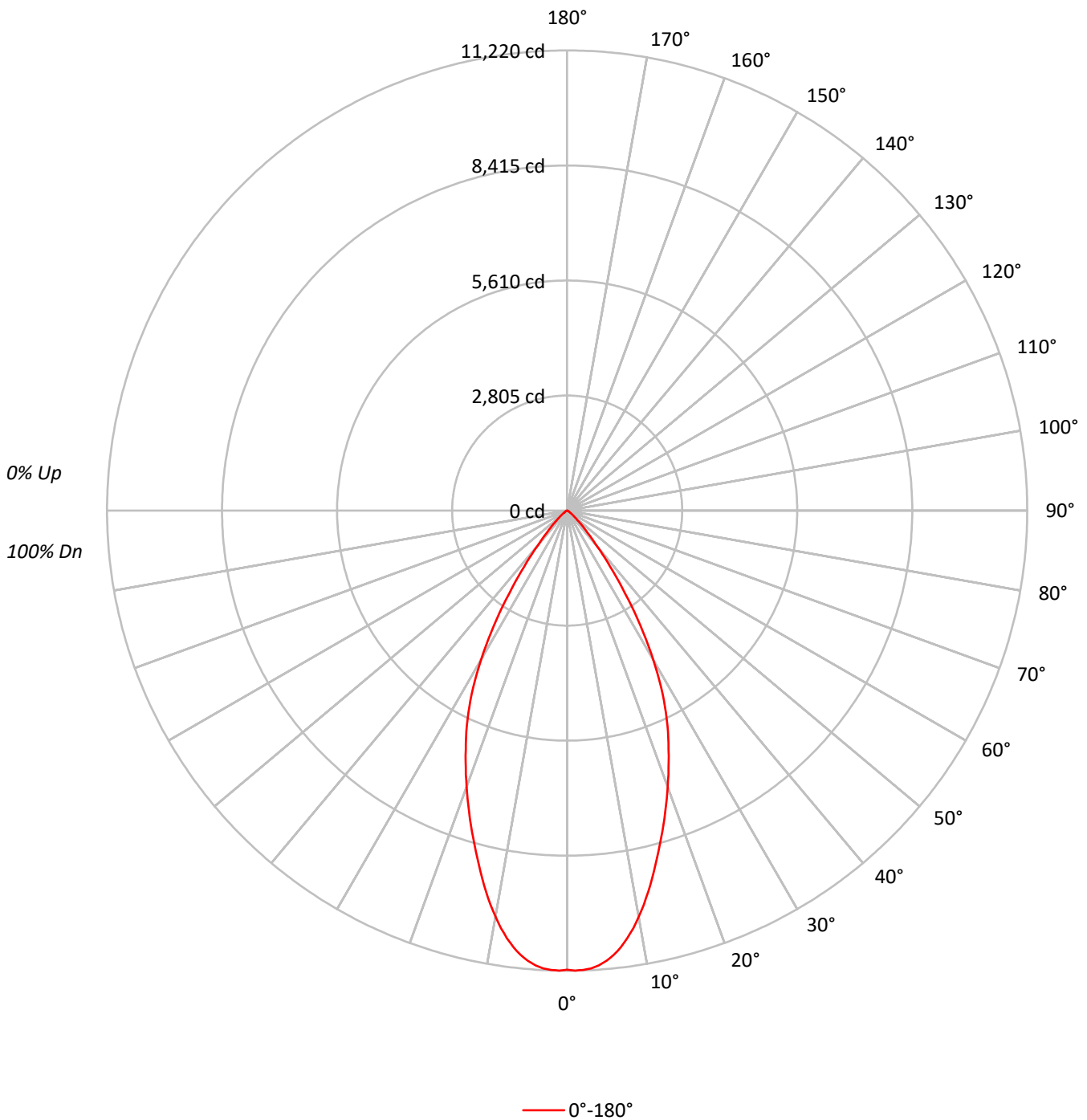
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	345290
5°	341049
10°	314974
15°	274649
20°	235266
25°	196932
30°	149822
35°	92872
40°	45821
45°	21809
50°	10602
55°	5199
60°	3238
65°	2218
70°	1244
75°	989
80°	977
85°	991



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1021.1	12.5
10°-20°	2397.2	29.4
20°-30°	2620.0	32.1
30°-40°	1559.1	19.1
40°-50°	427.7	5.2
50°-60°	96.9	1.2
60°-70°	29.9	0.4
70°-80°	9.1	0.1
80°-90°	3.0	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°	6038.3	74.0
0°-40°	7597.4	93.1
0°-60°	8122.0	99.5
0°-90°	8164.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8164.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	11198	
5°	11018	###
15°	8603	2397
25°	5788	2620
35°	2467	1559
45°	500	428
55°	97	97
65°	30	30
75°	8	9
85°	3	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	11197.5
1°	11219.6
2°	11205.7
3°	11178.1
4°	11114.6
5°	11017.9
6°	10893.6
7°	10727.8
8°	10534.4
9°	10310.6
10°	10059.2
11°	9791.2
12°	9503.9
13°	9208.3
14°	8901.6
15°	8603.2
16°	8310.4
17°	8023.0
18°	7735.7
19°	7448.4
20°	7169.4
22.5°	6467.6
25°	5788.0
27.5°	5039.3
30°	4207.7
32.5°	3315.3
35°	2467.1
37.5°	1715.7
40°	1138.3
42.5°	745.9
45°	500.1
47.5°	331.5
50°	221.0
52.5°	135.4
55°	96.7
57.5°	69.1
60°	52.5
62.5°	38.7
65°	30.4
67.5°	19.3
70°	13.8
72.5°	11.1
75°	8.3
77.5°	5.5
80°	5.5



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**CANDELA DISTRIBUTION (continued):**

	0°
82.5°	2.8
85°	2.8
87.5°	2.8
90°	0.0

(END OF REPORT)