

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: P246999

Luminaire Tested: **LD8B90D010 ER8B90827 8LBNOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246999  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-80)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B90D010 ER8B90827 8LBN0LI  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 2700 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8419.1 lumens  
Efficiency: N/A  
Efficacy: 97.8 lumens/watt  
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.56  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

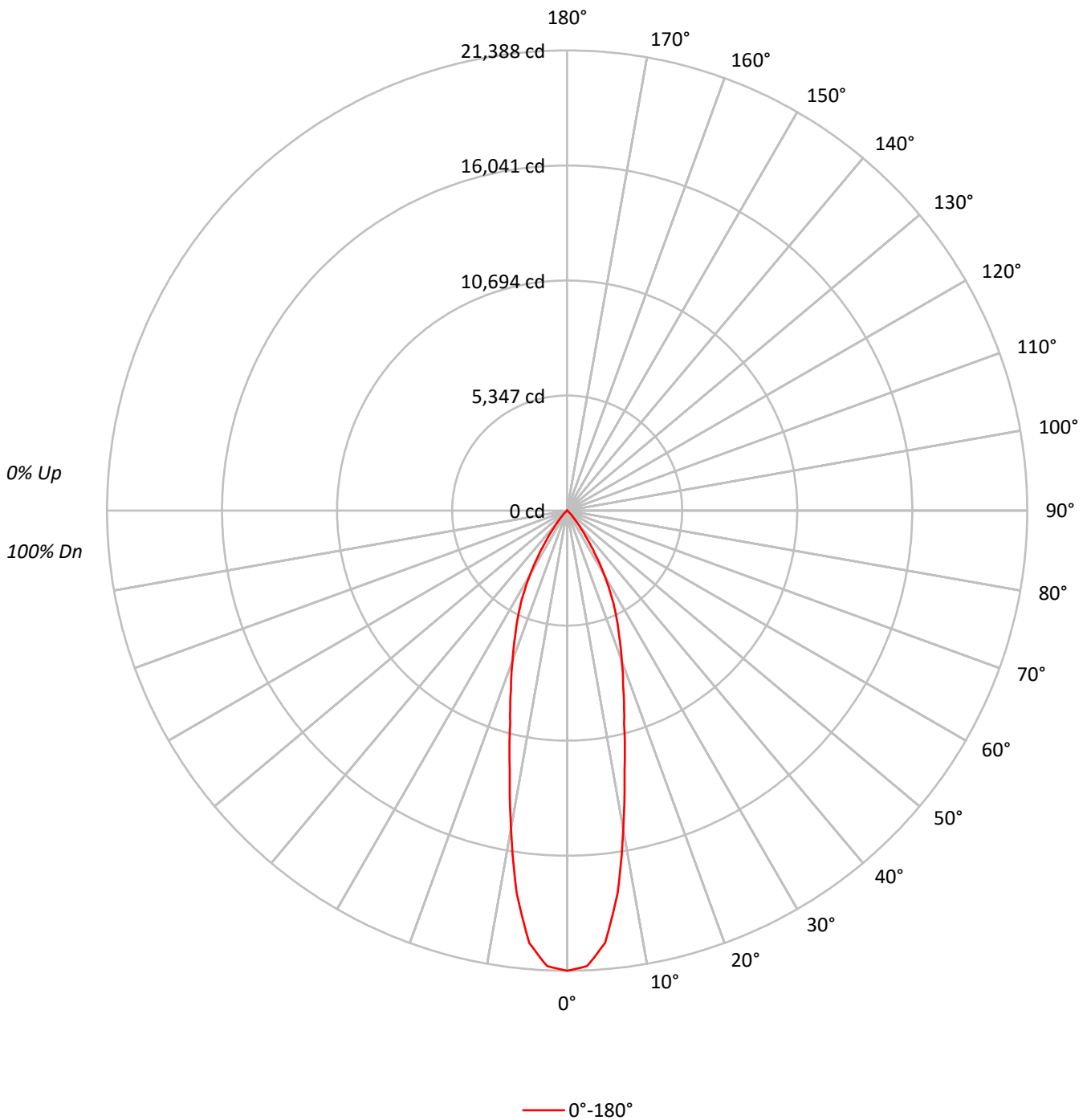
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	110	108	112	110	108	106	106	104	103		102	101	100		99	98	97	95
2	110	105	102	99	107	104	100	98	100	98	96		98	95	94		95	93	92	90
3	105	100	95	92	103	98	94	91	96	92	90		93	91	88		91	89	87	85
4	101	94	90	86	99	93	89	85	91	87	84		89	86	83		87	85	83	81
5	97	90	85	81	95	89	84	80	87	83	80		85	82	79		84	81	78	77
6	93	85	80	76	91	84	80	76	83	79	76		82	78	75		80	77	75	73
7	89	81	76	72	88	81	76	72	79	75	72		78	74	72		77	74	71	70
8	86	78	72	69	85	77	72	69	76	72	69		75	71	68		74	71	68	67
9	82	74	69	66	81	74	69	66	73	69	65		72	68	65		71	68	65	64
10	79	71	66	63	79	71	66	63	70	66	63		69	65	62		69	65	62	61

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

	0°
0°	659512
5°	624422
10°	470266
15°	326868
20°	243667
25°	183407
30°	122640
35°	64195
40°	24796
45°	9171
50°	2331
55°	457
60°	68
65°	233
70°	289
75°	0
80°	0
85°	389



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1754.1	20.8
10°-20°	2900.8	34.5
20°-30°	2445.6	29.0
30°-40°	1109.7	13.2
40°-50°	193.7	2.3
50°-60°	10.6	0.1
60°-70°	1.6	0.0
70°-80°	1.8	0.0
80°-90°	1.2	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°	7100.5	84.3
0°-40°	8210.2	97.5
0°-60°	8414.5	99.9
0°-90°	8419.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8419.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	21388	
5°	20172	###
15°	10239	2901
25°	5390	2446
35°	1705	1110
45°	210	194
55°	8	11
65°	3	2
75°	0	2
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	21387.5
2.5°	21198.4
5°	20172.5
7.5°	17937.9
10°	15018.7
12.5°	12320.3
15°	10238.9
17.5°	8675.2
20°	7425.4
22.5°	6325.5
25°	5390.5
27.5°	4439.6
30°	3444.3
32.5°	2507.2
35°	1705.3
37.5°	1047.0
40°	616.0
42.5°	361.3
45°	210.3
47.5°	125.7
50°	48.6
52.5°	7.4
55°	8.5
57.5°	7.4
60°	1.1
62.5°	1.1
65°	3.2
67.5°	0.0
70°	3.2
72.5°	5.3
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	1.1
87.5°	3.2
90°	0.0

(END OF REPORT)