

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: P243874

Luminaire Tested: **LD8B40D010 ER8B40827 8LBNOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P243874  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-10)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B40D010 ER8B40827 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: 3935.0 lumens  
Efficiency: N/A  
Efficacy: 96.2 lumens/watt  
Spacing Criteria (0/90/45): 0.25 / 0.25 / 0.32  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

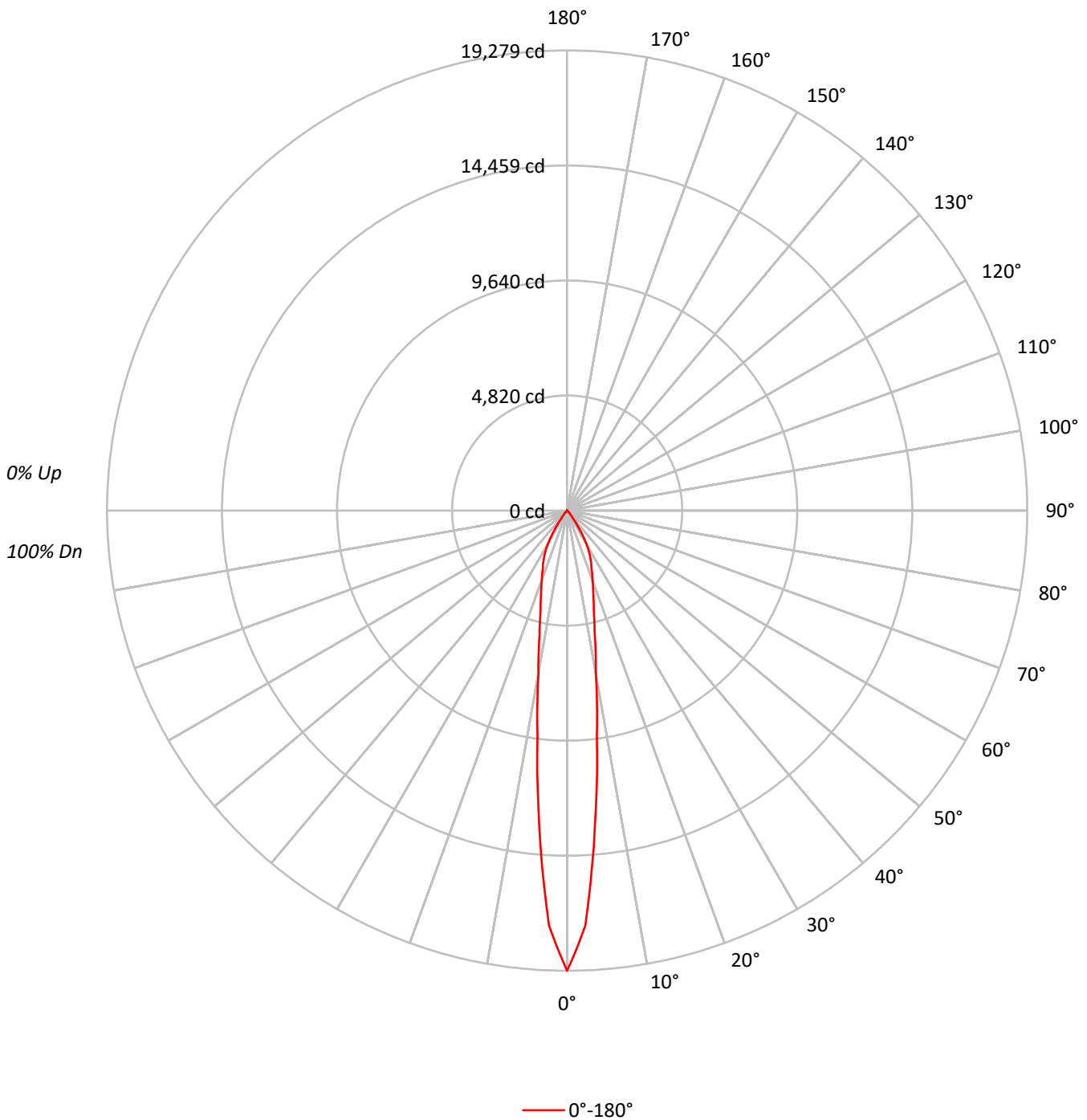
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°
0°	594490
5°	412903
10°	217280
15°	137475
20°	102164
25°	80321
30°	57825
35°	24815
40°	8647
45°	3319
50°	768
55°	285
60°	0
65°	387
70°	117
75°	322
80°	479
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1069.4	27.2
10°-20°	1242.5	31.6
20°-30°	1072.4	27.3
30°-40°	465.2	11.8
40°-50°	72.9	1.9
50°-60°	5.3	0.1
60°-70°	2.8	0.1
70°-80°	3.0	0.1
80°-90°	1.5	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°	3384.3	86.0
0°-40°	3849.5	97.8
0°-60°	3927.7	99.8
0°-90°	3935.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3935.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	19279	
5°	13339	###
15°	4306	1243
25°	2361	1072
35°	659	465
45°	76	73
55°	5	5
65°	5	3
75°	3	3
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	19278.9
2.5°	17409.3
5°	13339.2
7.5°	9513.3
10°	6939.2
12.5°	5324.5
15°	4306.3
17.5°	3621.7
20°	3113.3
22.5°	2679.6
25°	2360.7
27.5°	2024.4
30°	1624.0
32.5°	1128.9
35°	659.2
37.5°	368.3
40°	214.8
42.5°	133.4
45°	76.1
47.5°	61.4
50°	16.0
52.5°	8.0
55°	5.3
57.5°	2.7
60°	0.0
62.5°	1.3
65°	5.3
67.5°	4.0
70°	1.3
72.5°	6.7
75°	2.7
77.5°	0.0
80°	2.7
82.5°	1.3
85°	0.0
87.5°	2.7
90°	0.0

(END OF REPORT)