

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: P246274

Luminaire Tested: **LD8B40D010 ER8B40850 8LBW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246274  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-47)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B40D010 ER8B40850 8LBW0B  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 5000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2837.0 lumens  
Efficiency: N/A  
Efficacy: 69.4 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.02  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

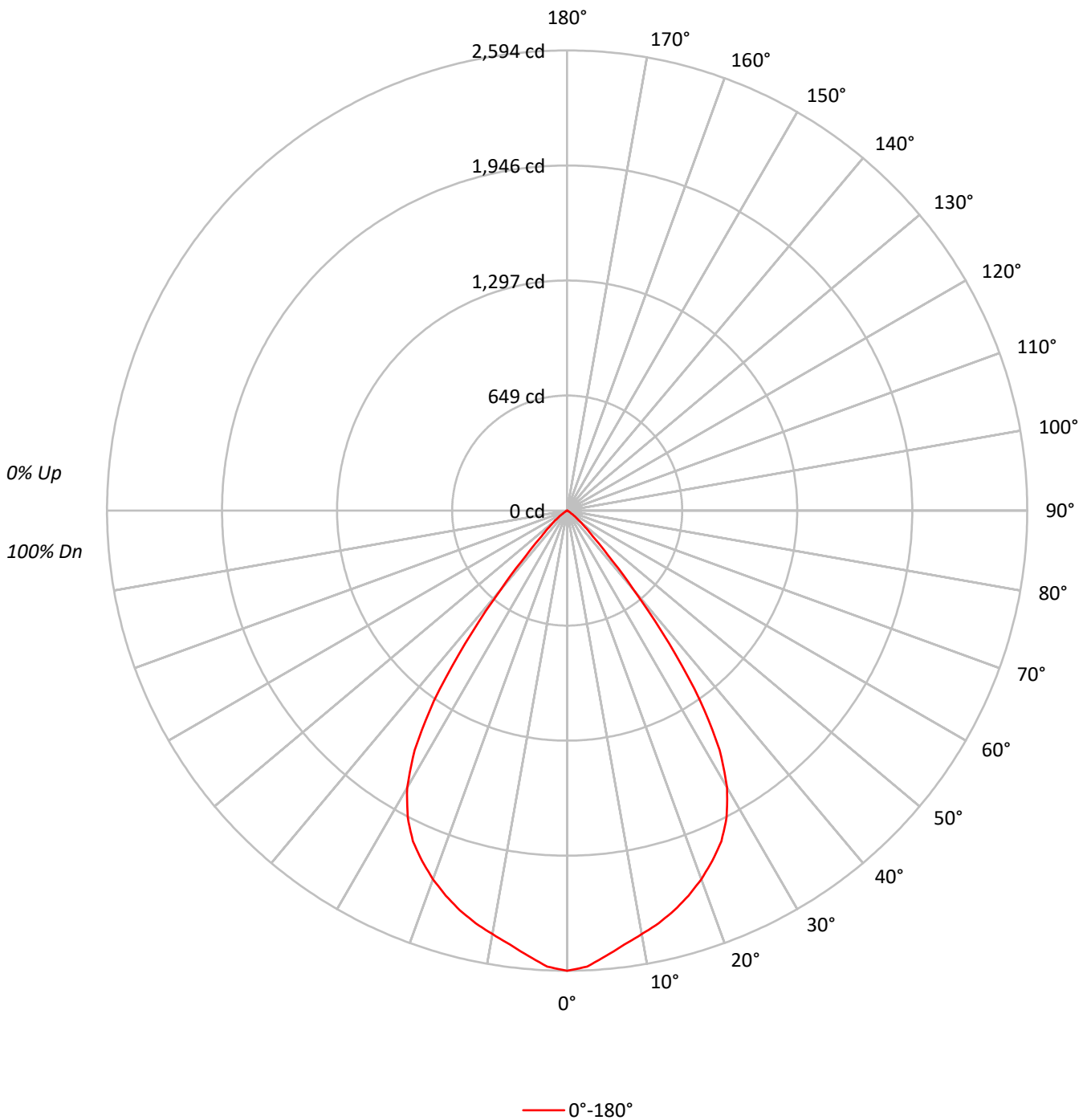
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	110	108	106	111	108	106	104	104	102	101		101	99	98		97	96	95	93
2	107	102	98	95	105	101	97	94	97	94	92		94	92	90		92	90	88	86
3	102	95	90	86	100	94	89	85	91	87	84		89	85	82		86	84	81	80
4	96	88	83	78	94	87	82	78	85	80	77		83	79	76		81	78	75	74
5	91	82	76	72	89	81	76	71	80	75	71		78	74	70		76	73	70	68
6	86	77	71	66	85	76	70	66	74	69	65		73	68	65		72	68	65	63
7	82	72	66	61	80	71	65	61	70	64	61		69	64	60		67	63	60	58
8	77	67	61	57	76	67	61	57	66	60	56		65	60	56		64	59	56	54
9	73	63	57	53	72	63	57	53	62	56	52		61	56	52		60	55	52	51
10	70	59	53	49	68	59	53	49	58	53	49		57	52	49		57	52	49	47

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

	0°
0°	79999
5°	77986
10°	75910
15°	74498
20°	72558
25°	69988
30°	64217
35°	49239
40°	23428
45°	8918
50°	4356
55°	1780
60°	444
65°	102
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	237.5	8.4
10°-20°	656.7	23.1
20°-30°	937.7	33.1
30°-40°	777.1	27.4
40°-50°	191.6	6.8
50°-60°	34.5	1.2
60°-70°	1.9	0.1
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°	1831.9	64.6
0°-40°	2609.0	92.0
0°-60°	2835.1	99.9
0°-90°	2837.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2837.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2594	
5°	2519	238
15°	2334	657
25°	2057	938
35°	1308	777
45°	204	192
55°	33	34
65°	1	2
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2594.3
2.5°	2572.7
5°	2519.4
7.5°	2467.5
10°	2424.3
12.5°	2382.6
15°	2333.6
17.5°	2276.0
20°	2211.1
22.5°	2137.7
25°	2057.0
27.5°	1947.5
30°	1803.5
32.5°	1600.4
35°	1308.0
37.5°	945.0
40°	582.0
42.5°	338.5
45°	204.5
47.5°	135.4
50°	90.8
52.5°	59.1
55°	33.1
57.5°	15.8
60°	7.2
62.5°	2.9
65°	1.4
67.5°	0.0
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)