

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: P246340

Luminaire Tested: **LD8B40D010 ER8B40840 8LBN0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246340  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201749)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B40D010 ER8B40840 8LBN0B  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 4000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 1887 (1 lamp)  
Luminaire Lumens: 2514.0 lumens  
Efficiency: 133.2%  
Efficacy: 61.5 lumens/watt  
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.77  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

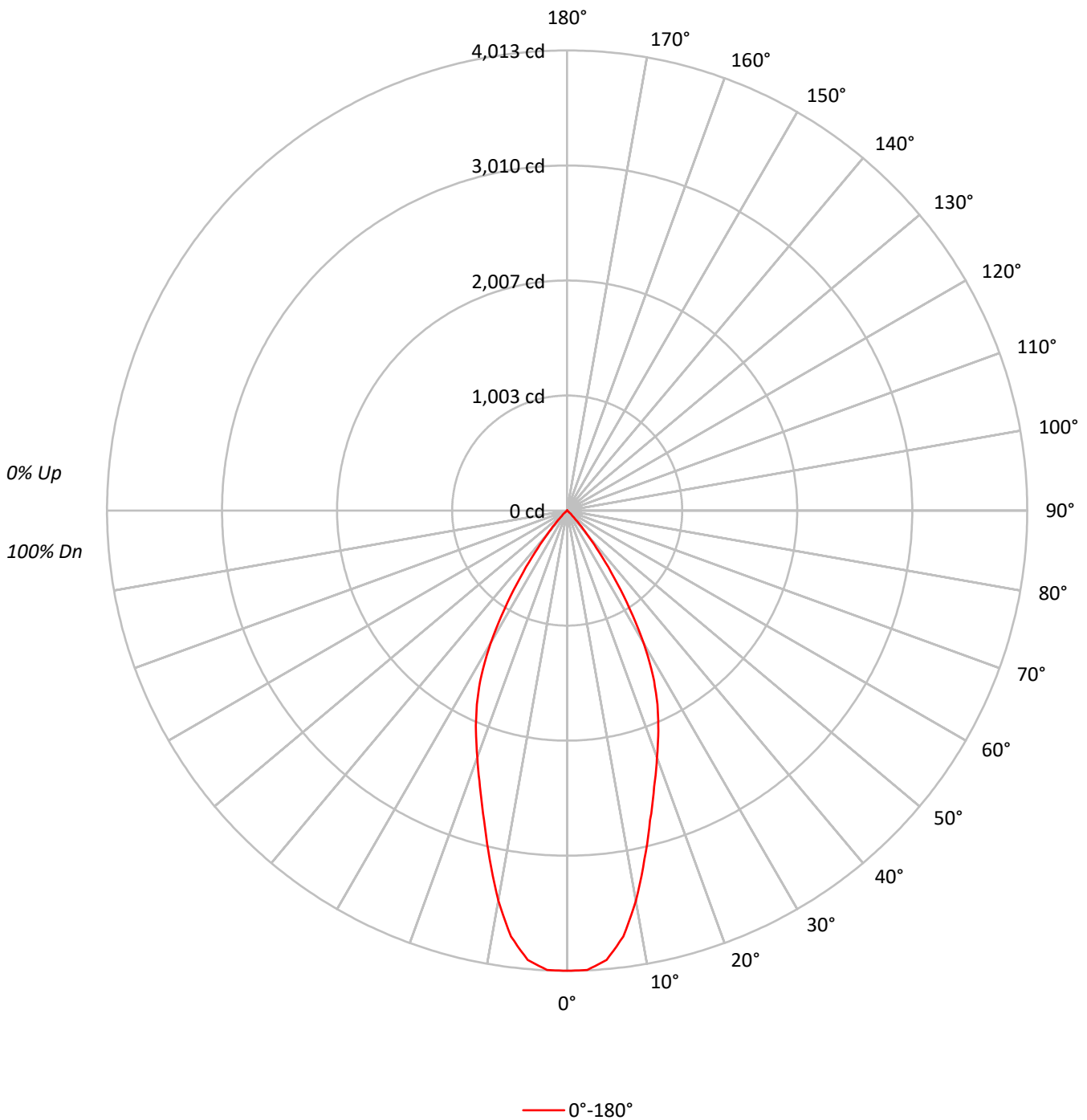
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																					
0	159	159	159	159	155	155	155	155	148	148	148	142	142	142	136	136	136	133			
1	152	148	145	142	149	145	143	140	140	138	136	135	133	132	131	129	128	126			
2	145	139	134	130	142	137	132	128	132	129	126	129	126	123	125	123	120	118			
3	138	131	124	120	136	129	123	119	125	121	117	122	118	115	119	116	113	111			
4	132	123	116	111	130	121	115	110	119	113	109	116	111	108	114	110	106	105			
5	126	116	109	103	124	115	108	103	112	106	102	110	105	101	108	104	100	98			
6	120	109	102	97	119	108	101	96	106	100	96	105	99	95	103	98	95	93			
7	115	104	96	91	113	103	96	91	101	95	90	100	94	90	98	93	89	88			
8	110	98	91	86	108	97	90	86	96	90	85	95	89	85	94	88	85	83			
9	105	93	86	81	104	93	86	81	91	85	81	90	85	80	89	84	80	78			
10	101	89	82	77	99	88	81	77	87	81	76	86	80	76	85	80	76	74			

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

	0°
0°	123737
5°	121783
10°	108186
15°	89269
20°	75163
25°	63401
30°	47489
35°	26859
40°	10607
45°	2839
50°	571
55°	0
60°	80
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	360.0	14.3	19.1	0°	4013	
10°-20°	784.7	31.2	41.6	5°	3934	360
20°-30°	840.6	33.4	44.5	15°	2796	785
30°-40°	455.5	18.1	24.1	25°	1863	841
40°-50°	70.8	2.8	3.7	35°	714	456
50°-60°	2.0	0.1	0.1	45°	65	71
60°-70°	0.5	0.0	0.0	55°	0	2
70°-80°	0.0	0.0	0.0	65°	0	0
80°-90°	0.0	0.0	0.0	75°	0	0
90°-100°	0.0	0.0	0.0	85°	0	0
100°-110°	0.0	0.0	0.0	90°	0	0
110°-120°	0.0	0.0	0.0	95°	0	0
120°-130°	0.0	0.0	0.0	105°	0	0
130°-140°	0.0	0.0	0.0	115°	0	0
140°-150°	0.0	0.0	0.0	125°	0	0
150°-160°	0.0	0.0	0.0	135°	0	0
160°-170°	0.0	0.0	0.0	145°	0	0
170°-180°	0.0	0.0	0.0	155°	0	0
0°-30°	1985.2	79.0	105.2	165°	0	0
0°-40°	2440.8	97.1	129.3	175°	0	0
0°-60°	2513.5	100.0	133.2	180°	0	0
0°-90°	2514.0	100.0	133.2			
90°-120°	0.0	0.0	0.0			
90°-150°	0.0	0.0	0.0			
90°-180°	0.0	0.0	0.0			
0°-180°	2514.0	100.0	133.2			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4012.7
2.5°	4010.1
5°	3934.3
7.5°	3746.6
10°	3455.1
12.5°	3115.7
15°	2796.3
17.5°	2526.1
20°	2290.5
22.5°	2078.9
25°	1863.4
27.5°	1619.8
30°	1333.7
32.5°	1016.9
35°	713.5
37.5°	456.7
40°	263.5
42.5°	141.0
45°	65.1
47.5°	34.6
50°	11.9
52.5°	1.3
55°	0.0
57.5°	1.3
60°	1.3
62.5°	0.0
65°	0.0
67.5°	1.3
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
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.0
105°	0.0
107.5°	0.0
110°	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.0
125°	0.0
127.5°	0.0
130°	0.0
132.5°	0.0
135°	0.0
137.5°	0.0
140°	0.0
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)