

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: P246346

Luminaire Tested: **LSR8B40D010 EC8B40850 8LBN0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246346  
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: LSR8B40D010 EC8B40850 8LBN0B  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 5000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 1887 (1 lamp)  
Luminaire Lumens: 2563.0 lumens  
Efficiency: 135.8%  
Efficacy: 62.7 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

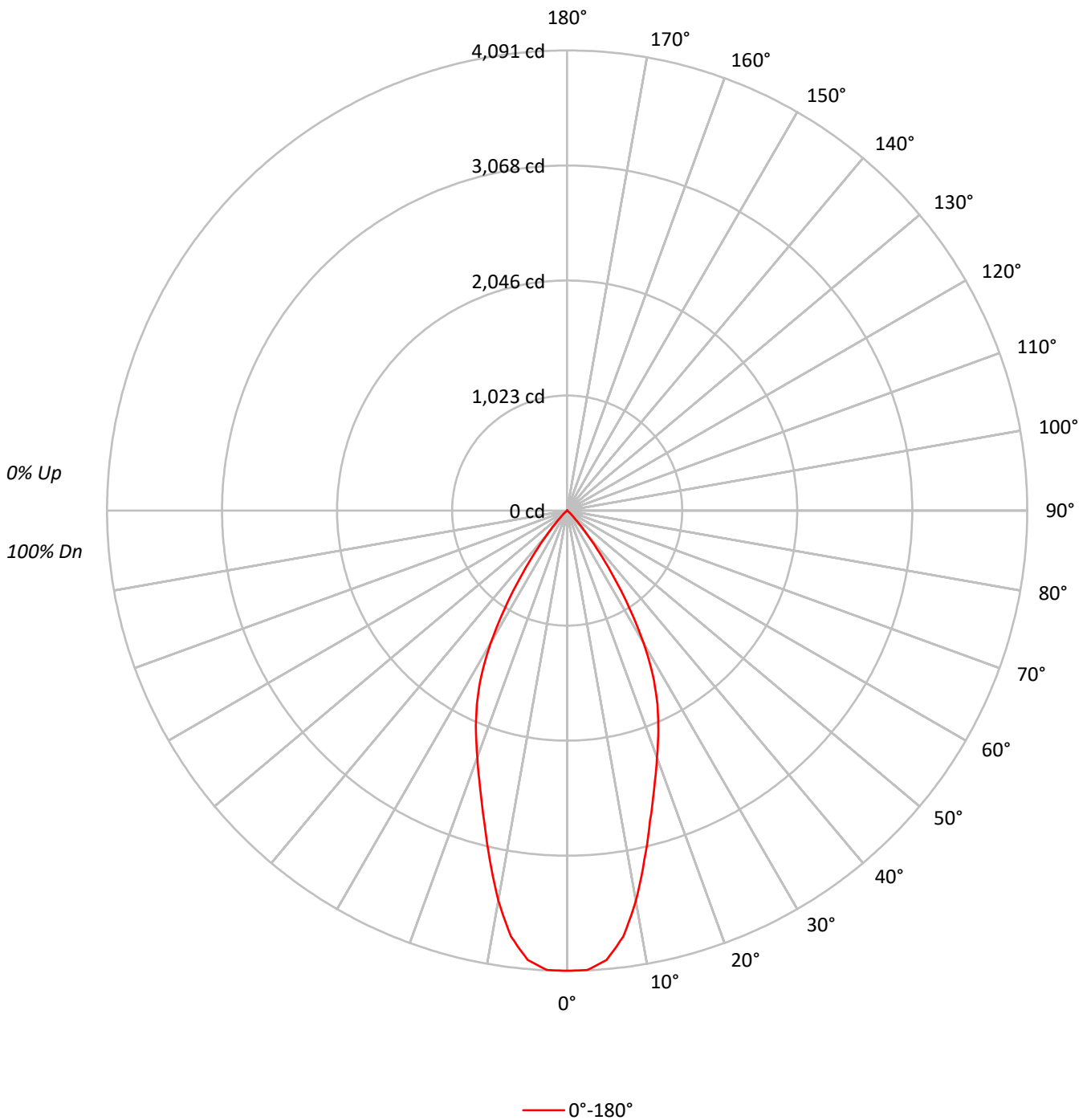
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	162	162	162	162	158	158	158	158	151	151	151	151	144	144	144	144	139	139	139	139	136
1	155	151	148	145	151	148	146	143	143	141	139	139	138	136	134	134	133	132	131	131	128
2	148	142	137	132	145	139	135	131	135	131	128	128	131	128	125	125	127	125	123	123	121
3	141	133	127	122	138	131	125	121	128	123	119	119	124	120	117	117	121	118	115	115	113
4	135	125	118	113	132	124	117	112	121	115	111	111	118	114	110	110	116	112	108	108	107
5	129	118	111	105	126	117	110	105	114	109	104	104	112	107	103	103	110	106	102	102	100
6	123	112	104	99	121	111	103	98	109	102	98	98	107	101	97	97	105	100	96	96	95
7	117	106	98	93	116	105	98	93	103	97	92	92	101	96	92	92	100	95	91	91	89
8	112	100	93	87	111	99	92	87	98	91	87	87	97	91	87	87	95	90	86	86	84
9	107	95	88	83	106	94	87	83	93	87	82	82	92	86	82	82	91	86	82	82	80
10	103	90	83	78	101	90	83	78	89	82	78	78	88	82	78	78	87	81	78	78	76

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

	0°
0°	126148
5°	124157
10°	110297
15°	91009
20°	76630
25°	64636
30°	48414
35°	27382
40°	10812
45°	2891
50°	580
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°	367.0	14.3	19.4	0°	4091	
10°-20°	800.0	31.2	42.4	5°	4011	367
20°-30°	857.0	33.4	45.4	15°	2851	800
30°-40°	464.4	18.1	24.6	25°	1900	857
40°-50°	72.1	2.8	3.8	35°	727	464
50°-60°	2.0	0.1	0.1	45°	66	72
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°	2023.9	79.0	107.3	165°	0	0
0°-40°	2488.4	97.1	131.9	175°	0	0
0°-60°	2562.5	100.0	135.8	180°	0	0
0°-90°	2563.0	100.0	135.8			
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°	2563.0	100.0	135.8			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4090.9
2.5°	4088.3
5°	4011.0
7.5°	3819.7
10°	3522.5
12.5°	3176.4
15°	2850.8
17.5°	2575.4
20°	2335.2
22.5°	2119.4
25°	1899.7
27.5°	1651.4
30°	1359.7
32.5°	1036.7
35°	727.4
37.5°	465.6
40°	268.6
42.5°	143.8
45°	66.3
47.5°	35.2
50°	12.1
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)