

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: P246376

Luminaire Tested: **LSR8B40D010 EC8B40950 8LBN0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246376  
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 EC8B40950 8LBN0B  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 5000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 1887 (1 lamp)  
Luminaire Lumens: 2334.0 lumens  
Efficiency: 123.7%  
Efficacy: 57.1 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

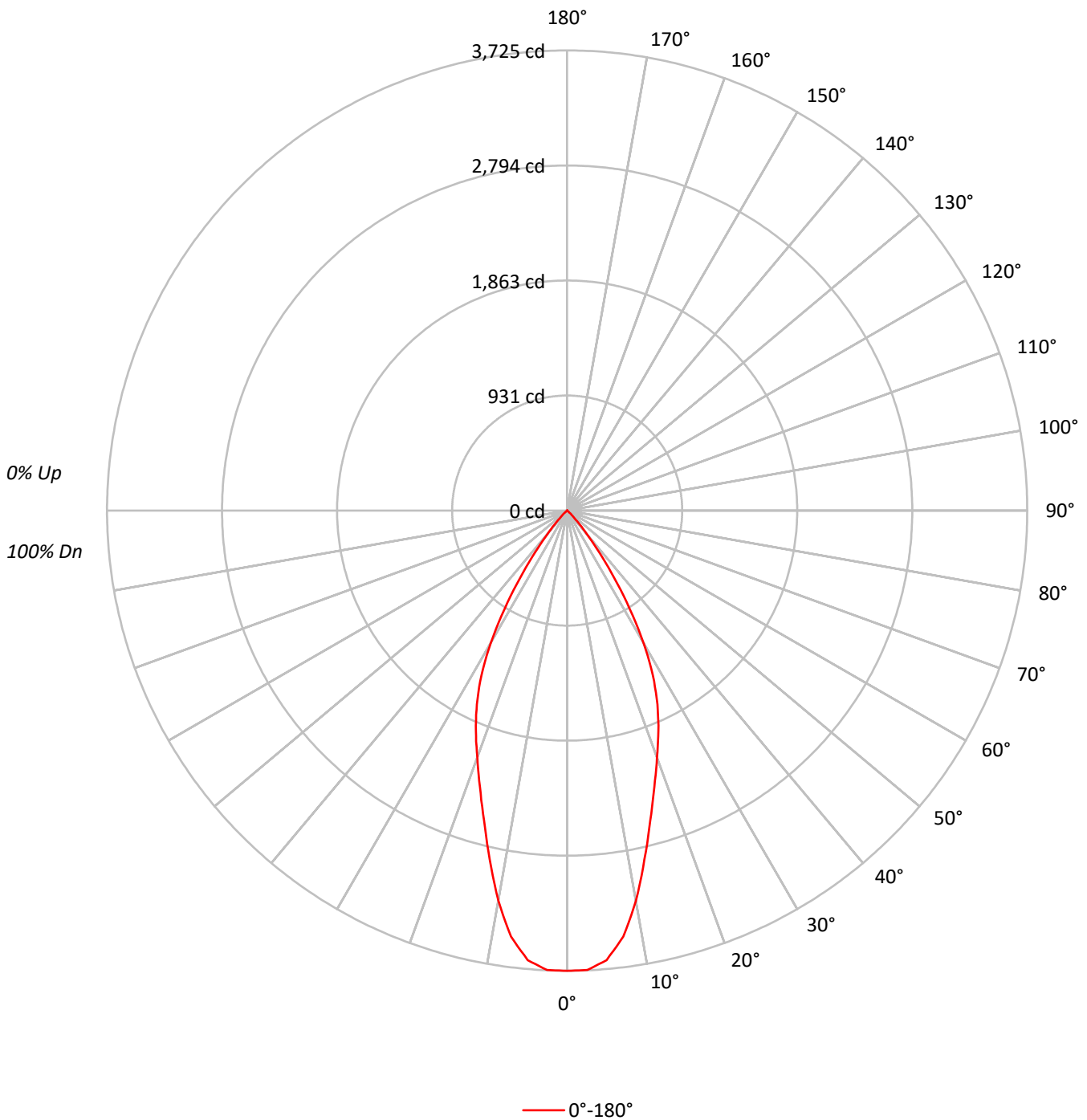
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	147	147	147	147	144	144	144	144	137	137	137	132	132	132	126	126	126	124		
1	141	138	135	132	138	135	133	130	130	128	126	126	124	122	121	120	119	117		
2	135	129	124	121	132	127	123	119	123	120	117	119	117	114	116	114	112	110		
3	129	121	115	111	126	119	114	110	116	112	108	113	110	107	111	108	105	103		
4	123	114	108	103	120	113	107	102	110	105	101	108	103	100	105	102	99	97		
5	117	108	101	96	115	106	100	96	104	99	95	102	98	94	100	96	93	91		
6	112	102	95	90	110	101	94	90	99	93	89	97	92	88	96	91	88	86		
7	107	96	89	84	105	95	89	84	94	88	84	92	87	83	91	86	83	81		
8	102	91	84	80	101	91	84	79	89	83	79	88	83	79	87	82	78	77		
9	98	87	80	75	96	86	80	75	85	79	75	84	78	75	83	78	74	73		
10	94	82	76	71	92	82	76	71	81	75	71	80	75	71	79	74	71	69		

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

	0°
0°	114878
5°	113063
10°	100440
15°	82878
20°	69782
25°	58862
30°	44088
35°	24936
40°	9846
45°	2634
50°	532
55°	0
60°	74
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°	334.2	14.3	17.7	0°	3725	
10°-20°	728.5	31.2	38.6	5°	3653	334
20°-30°	780.4	33.4	41.4	15°	2596	728
30°-40°	422.9	18.1	22.4	25°	1730	780
40°-50°	65.7	2.8	3.5	35°	662	423
50°-60°	1.9	0.1	0.1	45°	60	66
60°-70°	0.4	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°	1843.1	79.0	97.7	165°	0	0
0°-40°	2266.0	97.1	120.1	175°	0	0
0°-60°	2333.6	100.0	123.7	180°	0	0
0°-90°	2334.0	100.0	123.7			
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°	2334.0	100.0	123.7			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3725.4
2.5°	3723.0
5°	3652.6
7.5°	3478.4
10°	3207.7
12.5°	2892.6
15°	2596.1
17.5°	2345.3
20°	2126.5
22.5°	1930.1
25°	1730.0
27.5°	1503.8
30°	1238.2
32.5°	944.1
35°	662.4
37.5°	424.0
40°	244.6
42.5°	130.9
45°	60.4
47.5°	32.1
50°	11.1
52.5°	1.2
55°	0.0
57.5°	1.2
60°	1.2
62.5°	0.0
65°	0.0
67.5°	1.2
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)