

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: P245662

Luminaire Tested: **LSR8B40D010 EC8B40927 8LBN0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245662  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201794)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B40D010 EC8B40927 8LBN0GPH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 2183 (1 lamp)  
Luminaire Lumens: 2788.8 lumens  
Efficiency: 127.8%  
Efficacy: 68.2 lumens/watt  
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.77  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

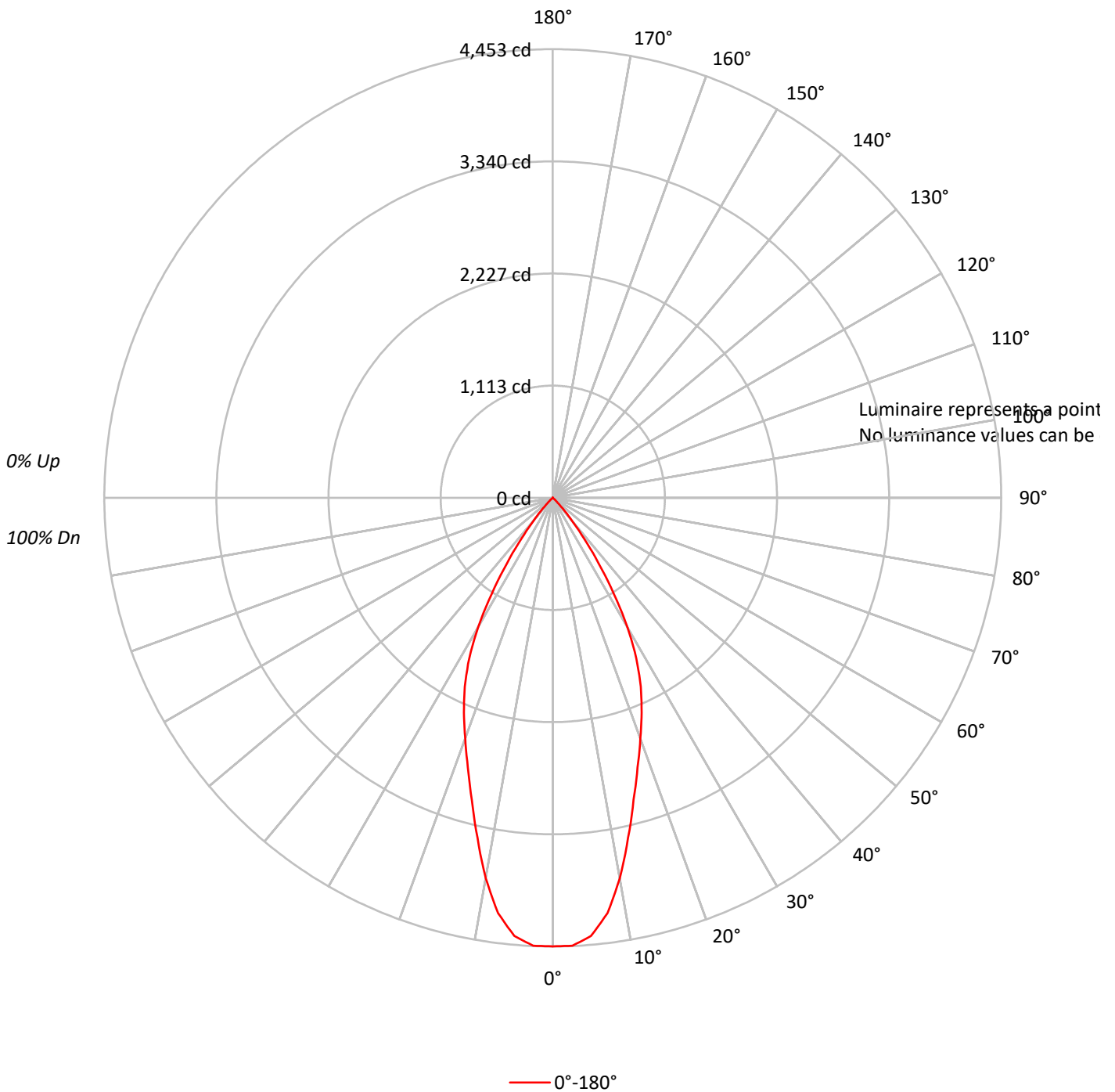
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	152	152	152	152	149	149	149	149	142	142	142	136	136	136	130	130	130	128	128	128
1	146	142	139	137	142	140	137	134	134	132	130	130	128	126	125	124	123	121	121	121
2	139	133	128	124	136	131	127	123	127	123	120	123	120	118	120	117	115	113	113	113
3	133	125	119	115	130	123	118	114	120	116	112	117	113	110	114	111	108	107	107	107
4	127	118	111	106	124	116	110	106	114	109	104	111	107	103	109	105	102	100	100	100
5	121	111	104	99	119	110	103	99	108	102	98	106	101	97	104	99	96	94	94	94
6	115	105	98	93	114	104	97	93	102	96	92	100	95	91	99	94	91	89	89	89
7	110	99	92	87	109	98	92	87	97	91	87	95	90	86	94	89	86	84	84	84
8	105	94	87	82	104	93	87	82	92	86	82	91	85	81	90	85	81	79	79	79
9	101	89	82	78	100	89	82	78	88	82	77	87	81	77	86	81	77	75	75	75
10	97	85	78	74	95	85	78	74	84	78	73	83	77	73	82	77	73	71	71	71

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





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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	399.4	14.3	18.3	0°	4453	
10°-20°	870.5	31.2	39.9	5°	4365	399
20°-30°	932.5	33.4	42.7	15°	3102	871
30°-40°	505.3	18.1	23.1	25°	2068	932
40°-50°	78.7	2.8	3.6	35°	791	505
50°-60°	2.0	0.1	0.1	45°	73	79
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°	2202.4	79.0	100.9	165°	0	0
0°-40°	2707.7	97.1	124.0	175°	0	0
0°-60°	2788.4	100.0	127.7	180°	0	0
0°-90°	2788.8	100.0	127.8			
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°	2788.8	100.0	127.8			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4452.6
2.5°	4449.0
5°	4364.7
7.5°	4156.7
10°	3833.8
12.5°	3456.0
15°	3102.5
17.5°	2802.6
20°	2540.9
22.5°	2306.1
25°	2067.5
27.5°	1796.8
30°	1479.0
32.5°	1128.1
35°	791.3
37.5°	506.8
40°	292.2
42.5°	155.7
45°	72.7
47.5°	39.7
50°	12.7
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)