

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: P245614

Luminaire Tested: **LSR8B40D010 EC8B40835 8LBN0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245614  
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 EC8B40835 8LBN0GPH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3500 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 2183 (1 lamp)  
Luminaire Lumens: 3560.0 lumens  
Efficiency: 163.1%  
Efficacy: 87.0 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

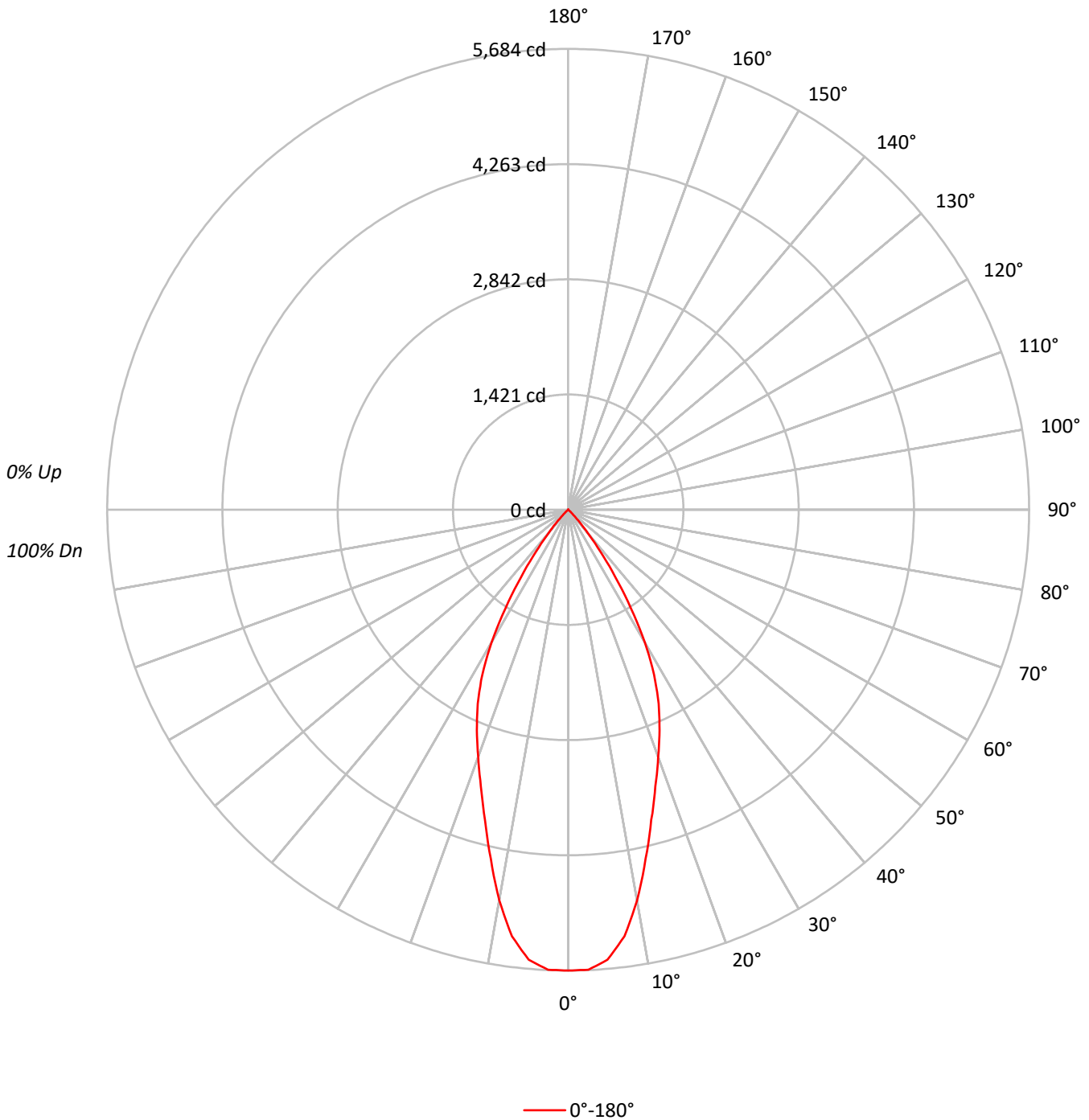
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	194	194	194	194	190	190	190	190	181	181	181	173	173	173	166	166	166	163	163	163
1	186	182	178	174	182	178	175	172	172	169	166	165	163	161	160	158	157	154	154	154
2	177	170	164	159	174	167	162	157	162	158	154	157	154	150	153	150	147	145	145	145
3	169	160	152	146	166	158	151	145	153	148	143	149	145	141	146	142	138	136	136	136
4	162	150	142	136	159	149	141	135	145	139	133	142	136	132	139	134	130	128	128	128
5	154	142	133	127	152	140	132	126	137	130	125	135	129	124	132	127	123	120	120	120
6	147	134	125	118	145	133	124	118	130	123	117	128	122	117	126	120	116	114	114	114
7	141	127	118	111	139	126	117	111	124	116	110	122	115	110	120	114	109	107	107	107
8	135	120	111	105	133	119	111	105	118	110	104	116	109	104	114	108	103	101	101	101
9	129	114	105	99	127	113	105	99	112	104	99	111	103	98	109	103	98	96	96	96
10	123	109	100	94	122	108	100	94	107	99	94	105	98	93	104	98	93	91	91	91

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

	0°
0°	175267
5°	172461
10°	153235
15°	126432
20°	106436
25°	89800
30°	67225
35°	38024
40°	15011
45°	4047
50°	777
55°	0
60°	99
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°	509.8	14.3	23.4	0°	5684	
10°-20°	1111.2	31.2	50.9	5°	5572	510
20°-30°	1190.3	33.4	54.5	15°	3960	1111
30°-40°	645.0	18.1	29.5	25°	2639	1190
40°-50°	100.4	2.8	4.6	35°	1010	645
50°-60°	2.6	0.1	0.1	45°	93	100
60°-70°	0.6	0.0	0.0	55°	0	3
70°-80°	0.0	0.0	0.0	65°	0	1
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°	2811.4	79.0	128.8	165°	0	0
0°-40°	3456.4	97.1	158.3	175°	0	0
0°-60°	3559.4	100.0	163.1	180°	0	0
0°-90°	3560.0	100.0	163.1			
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°	3560.0	100.0	163.1			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5683.8
2.5°	5679.2
5°	5571.5
7.5°	5305.9
10°	4893.8
12.5°	4411.6
15°	3960.4
17.5°	3577.5
20°	3243.5
22.5°	2943.8
25°	2639.3
27.5°	2293.7
30°	1888.0
32.5°	1440.1
35°	1010.1
37.5°	646.9
40°	372.9
42.5°	198.7
45°	92.8
47.5°	50.7
50°	16.2
52.5°	1.6
55°	0.0
57.5°	1.6
60°	1.6
62.5°	0.0
65°	0.0
67.5°	1.6
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)