

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: P244756

Luminaire Tested: **LSR8B40D010 EC8B40840 8LBN0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244756  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201884)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B40D010 EC8B40840 8LBN0WMH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 4000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3842.0 lumens  
Efficiency: N/A  
Efficacy: 93.9 lumens/watt  
Spacing Criteria (0/90/45): 0.74 / 0.74 / 0.79  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

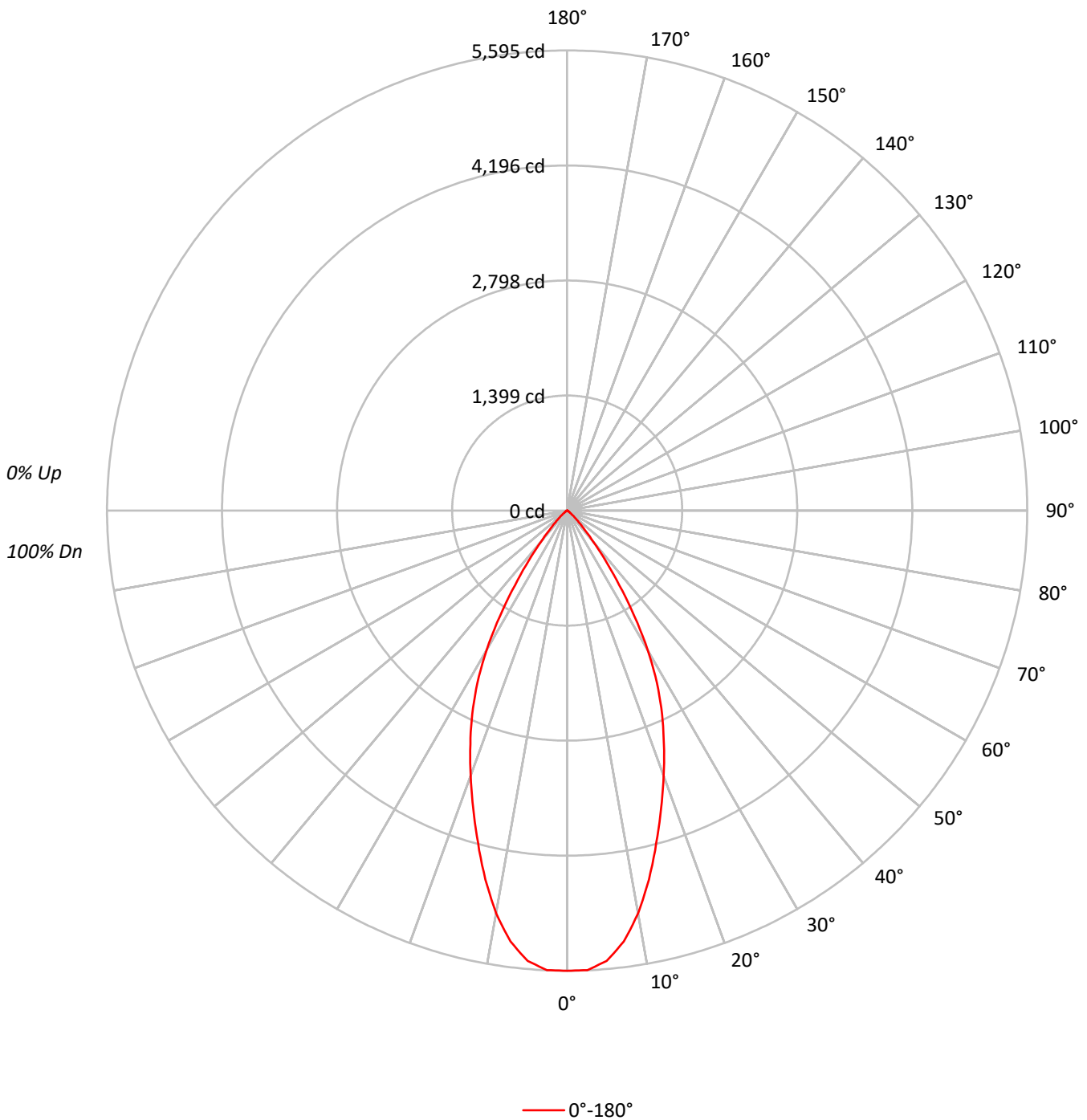
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P244756

CATALOG NUMBER: LSR8B40D010 EC8B40840 8LBN0WMH

### Luminous Intensity Polar Plot





TEST NUMBER: P244756

CATALOG NUMBER: LSR8B40D010 EC8B40840 8LBN0WMH

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20			
RC	80				70				50				30				10	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	114	111	109	107	111	109	107	105	105	103	102		101	100	99		98	97	96	94
2	108	104	100	97	106	102	99	96	99	96	93		96	94	91		93	91	90	88
3	103	97	92	89	101	96	91	88	93	89	86		91	88	85		89	86	84	82
4	98	91	86	82	97	90	85	81	88	84	80		86	82	79		84	81	79	77
5	94	86	80	76	92	85	80	76	83	78	75		81	77	74		80	76	74	72
6	89	81	75	71	88	80	75	71	79	74	70		77	73	70		76	72	69	68
7	85	76	71	67	84	76	70	66	74	70	66		73	69	66		72	68	65	64
8	81	72	66	63	80	72	66	62	71	66	62		70	65	62		69	65	62	60
9	78	68	63	59	77	68	63	59	67	62	59		66	62	59		65	61	58	57
10	74	65	59	56	73	65	59	56	64	59	56		63	59	55		62	58	55	54

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

	0°
0°	172535
5°	170130
10°	155668
15°	133650
20°	112543
25°	92964
30°	69746
35°	41570
40°	19801
45°	8626
50°	3895
55°	1710
60°	1018
65°	555
70°	577
75°	0
80°	213
85°	920



TEST NUMBER: P244756

CATALOG NUMBER: LSR8B40D010 EC8B40840 8LBN0WMH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	507.6	13.2
10°-20°	1166.6	30.4
20°-30°	1237.7	32.2
30°-40°	706.2	18.4
40°-50°	175.1	4.6
50°-60°	34.4	0.9
60°-70°	10.3	0.3
70°-80°	2.3	0.1
80°-90°	1.9	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2911.8	75.8
0°-40°	3618.1	94.2
0°-60°	3827.5	99.6
0°-90°	3842.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3842.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5595	
5°	5496	508
15°	4186	1167
25°	2732	1238
35°	1104	706
45°	198	175
55°	32	34
65°	8	10
75°	0	2
85°	3	2
90°	0	0
95°	0	0
105°	0	0
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	0



TEST NUMBER: P244756

CATALOG NUMBER: LSR8B40D010 EC8B40840 8LBN0WMH

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5595.2
2.5°	5592.6
5°	5496.2
7.5°	5284.4
10°	4971.5
12.5°	4593.5
15°	4186.5
17.5°	3798.6
20°	3429.6
22.5°	3074.7
25°	2732.3
27.5°	2364.6
30°	1958.8
32.5°	1522.6
35°	1104.3
37.5°	760.8
40°	491.9
42.5°	311.9
45°	197.8
47.5°	129.4
50°	81.2
52.5°	49.4
55°	31.8
57.5°	25.4
60°	16.5
62.5°	15.2
65°	7.6
67.5°	7.6
70°	6.4
72.5°	3.7
75°	0.0
77.5°	1.2
80°	1.2
82.5°	2.6
85°	2.6
87.5°	1.2
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



TEST NUMBER: P244756

CATALOG NUMBER: LSR8B40D010 EC8B40840 8LBN0WMH

**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)