

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: P246334

Luminaire Tested: **LSR8B40D010 EC8B40835 8LBN0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246334
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 EC8B40835 8LBN0B
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 1887 (1 lamp)
Luminaire Lumens: 2531.0 lumens
Efficiency: 134.1%
Efficacy: 61.9 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

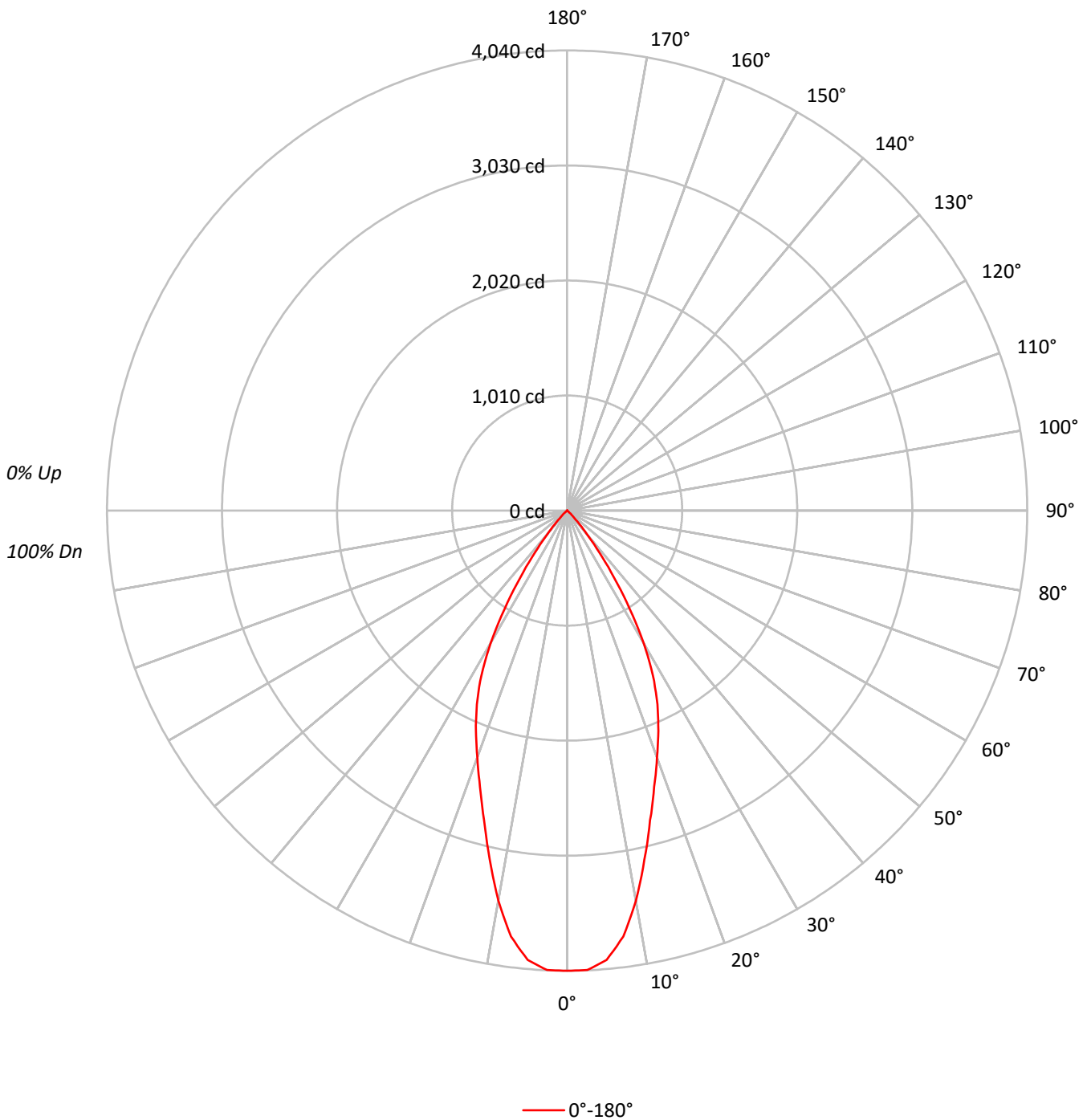
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	160	160	160	160	156	156	156	156	149	149	149	143	143	143	137	137	137	134		
1	153	149	146	143	150	146	144	141	141	139	137	136	134	133	132	130	129	127		
2	146	140	135	131	143	138	133	129	133	130	126	129	126	124	126	123	121	119		
3	139	131	125	120	137	130	124	119	126	121	117	123	119	116	120	117	114	112		
4	133	124	117	112	131	122	116	111	119	114	110	117	112	108	114	110	107	105		
5	127	117	109	104	125	115	109	104	113	107	103	111	106	102	109	104	101	99		
6	121	110	103	97	119	109	102	97	107	101	96	105	100	96	104	99	95	93		
7	116	104	97	92	114	103	96	91	102	95	91	100	95	90	99	94	90	88		
8	111	99	91	86	109	98	91	86	97	90	86	95	90	85	94	89	85	83		
9	106	94	87	82	105	93	86	81	92	86	81	91	85	81	90	85	81	79		
10	101	89	82	77	100	89	82	77	88	81	77	87	81	77	86	80	77	75		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	124576
5°	122606
10°	108919
15°	89873
20°	75672
25°	63829
30°	47809
35°	27040
40°	10679
45°	2856
50°	576
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°	362.4	14.3	19.2	0°	4040	
10°-20°	790.0	31.2	41.9	5°	3961	362
20°-30°	846.3	33.4	44.8	15°	2815	790
30°-40°	458.6	18.1	24.3	25°	1876	846
40°-50°	71.2	2.8	3.8	35°	718	459
50°-60°	2.0	0.1	0.1	45°	66	71
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°	1998.7	79.0	105.9	165°	0	0
0°-40°	2457.3	97.1	130.2	175°	0	0
0°-60°	2530.5	100.0	134.1	180°	0	0
0°-90°	2531.0	100.0	134.1			
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°	2531.0	100.0	134.1			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4039.9
2.5°	4037.2
5°	3960.9
7.5°	3772.0
10°	3478.5
12.5°	3136.8
15°	2815.2
17.5°	2543.2
20°	2306.0
22.5°	2093.0
25°	1876.0
27.5°	1630.7
30°	1342.7
32.5°	1023.7
35°	718.3
37.5°	459.7
40°	265.3
42.5°	142.0
45°	65.5
47.5°	34.8
50°	12.0
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)