

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: P246370

Luminaire Tested: **LSR8B40D010 EC8B40940 8LBN0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246370
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 EC8B40940 8LBN0B
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 1887 (1 lamp)
Luminaire Lumens: 2254.0 lumens
Efficiency: 119.5%
Efficacy: 55.1 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

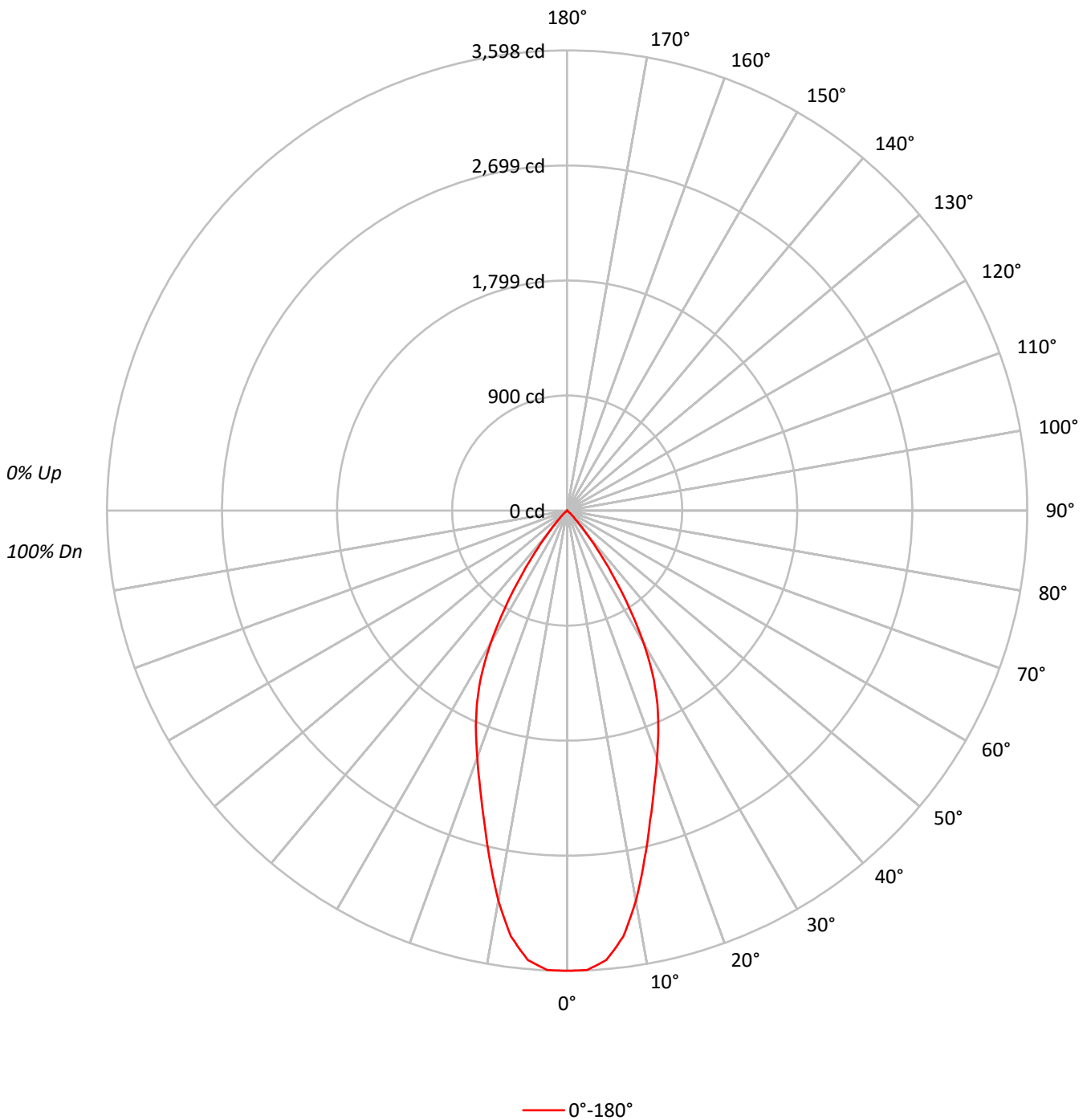
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	142	142	142	142	139	139	139	139	133	133	133	127	127	127	122	122	122	119	119	119	119
1	136	133	130	128	133	130	128	126	126	124	122	121	120	118	117	116	115	113	113	113	113
2	130	125	120	116	127	123	119	115	119	115	113	115	113	110	112	110	108	106	106	106	106
3	124	117	112	107	122	115	110	106	112	108	105	109	106	103	107	104	101	100	100	100	100
4	118	110	104	99	116	109	103	99	106	101	98	104	100	97	102	98	95	94	94	94	94
5	113	104	97	93	111	103	97	92	101	95	91	99	94	91	97	93	90	88	88	88	88
6	108	98	92	87	106	97	91	86	95	90	86	94	89	85	92	88	85	83	83	83	83
7	103	93	86	82	102	92	86	81	91	85	81	89	84	81	88	83	80	79	79	79	79
8	99	88	81	77	97	87	81	77	86	80	76	85	80	76	84	79	76	74	74	74	74
9	94	84	77	73	93	83	77	73	82	76	72	81	76	72	80	75	72	70	70	70	70
10	90	80	73	69	89	79	73	69	78	72	69	77	72	68	76	72	68	67	67	67	67

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	110940
5°	109188
10°	96998
15°	80037
20°	67393
25°	56844
30°	42575
35°	24081
40°	9508
45°	2542
50°	513
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°	322.8	14.3	17.1	0°	3598	
10°-20°	703.5	31.2	37.3	5°	3527	323
20°-30°	753.6	33.4	39.9	15°	2507	704
30°-40°	408.4	18.1	21.6	25°	1671	754
40°-50°	63.4	2.8	3.4	35°	640	408
50°-60°	1.8	0.1	0.1	45°	58	63
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°	1779.9	79.0	94.3	165°	0	0
0°-40°	2188.3	97.1	116.0	175°	0	0
0°-60°	2253.6	100.0	119.4	180°	0	0
0°-90°	2254.0	100.0	119.5			
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°	2254.0	100.0	119.5			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3597.7
2.5°	3595.4
5°	3527.4
7.5°	3359.2
10°	3097.8
12.5°	2793.5
15°	2507.1
17.5°	2264.9
20°	2053.7
22.5°	1863.9
25°	1670.7
27.5°	1452.3
30°	1195.7
32.5°	911.7
35°	639.7
37.5°	409.4
40°	236.2
42.5°	126.4
45°	58.3
47.5°	31.0
50°	10.7
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)