

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: P245608

Luminaire Tested: **LSR8B40D010 EC8B40830 8LBN0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245608
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 EC8B40830 8LBN0GPH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 2183 (1 lamp)
Luminaire Lumens: 3423.0 lumens
Efficiency: 156.8%
Efficacy: 83.7 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

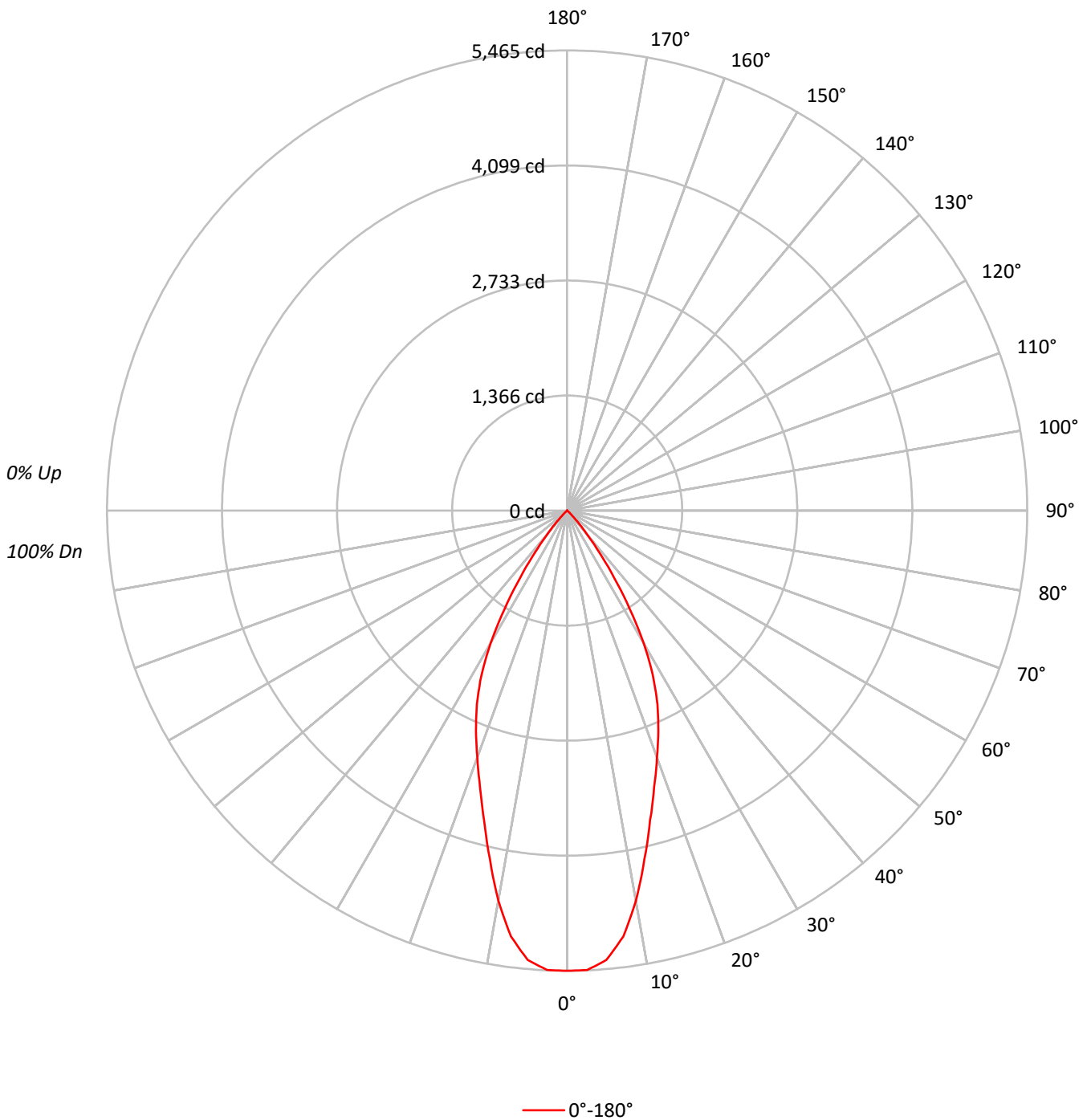
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	187	187	187	187	182	182	182	182	174	174	174	167	167	167	160	160	160	157	157	157
1	179	175	171	168	175	171	168	165	165	162	160	159	157	155	154	152	151	148	148	148
2	171	164	158	153	167	161	156	151	156	152	148	151	148	145	147	144	142	139	139	139
3	163	154	146	141	160	151	145	140	147	142	137	144	139	135	140	136	133	131	131	131
4	155	145	137	130	153	143	135	130	140	133	128	136	131	127	134	129	125	123	123	123
5	148	136	128	122	146	135	127	121	132	125	120	130	124	119	127	122	118	116	116	116
6	142	129	120	114	139	128	119	114	125	118	113	123	117	112	121	116	111	109	109	109
7	135	122	113	107	133	121	113	107	119	112	106	117	111	106	115	110	105	103	103	103
8	129	116	107	101	128	115	106	101	113	106	100	112	105	100	110	104	100	98	98	98
9	124	110	101	95	122	109	101	95	108	100	95	106	100	95	105	99	94	92	92	92
10	119	104	96	90	117	104	96	90	103	95	90	101	95	90	100	94	90	88	88	88

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	168524
5°	165824
10°	147339
15°	121567
20°	102341
25°	86343
30°	64640
35°	36560
40°	14435
45°	3890
50°	748
55°	0
60°	93
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°	490.2	14.3	22.5	0°	5465	
10°-20°	1068.5	31.2	48.9	5°	5357	490
20°-30°	1144.5	33.4	52.4	15°	3808	1068
30°-40°	620.2	18.1	28.4	25°	2538	1145
40°-50°	96.5	2.8	4.4	35°	971	620
50°-60°	2.5	0.1	0.1	45°	89	97
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°	2703.2	79.0	123.8	165°	0	0
0°-40°	3323.4	97.1	152.2	175°	0	0
0°-60°	3422.4	100.0	156.8	180°	0	0
0°-90°	3423.0	100.0	156.8			
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°	3423.0	100.0	156.8			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5465.1
2.5°	5460.7
5°	5357.1
7.5°	5101.7
10°	4705.5
12.5°	4241.8
15°	3808.0
17.5°	3439.8
20°	3118.7
22.5°	2830.5
25°	2537.7
27.5°	2205.4
30°	1815.4
32.5°	1384.6
35°	971.2
37.5°	622.0
40°	358.6
42.5°	191.1
45°	89.2
47.5°	48.7
50°	15.6
52.5°	1.5
55°	0.0
57.5°	1.5
60°	1.5
62.5°	0.0
65°	0.0
67.5°	1.5
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)