

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: P245656

Luminaire Tested: **LSR8B40D010 EC8B40950 8LBN0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245656
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 EC8B40950 8LBN0GPH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 2183 (1 lamp)
Luminaire Lumens: 3283.0 lumens
Efficiency: 150.4%
Efficacy: 80.3 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

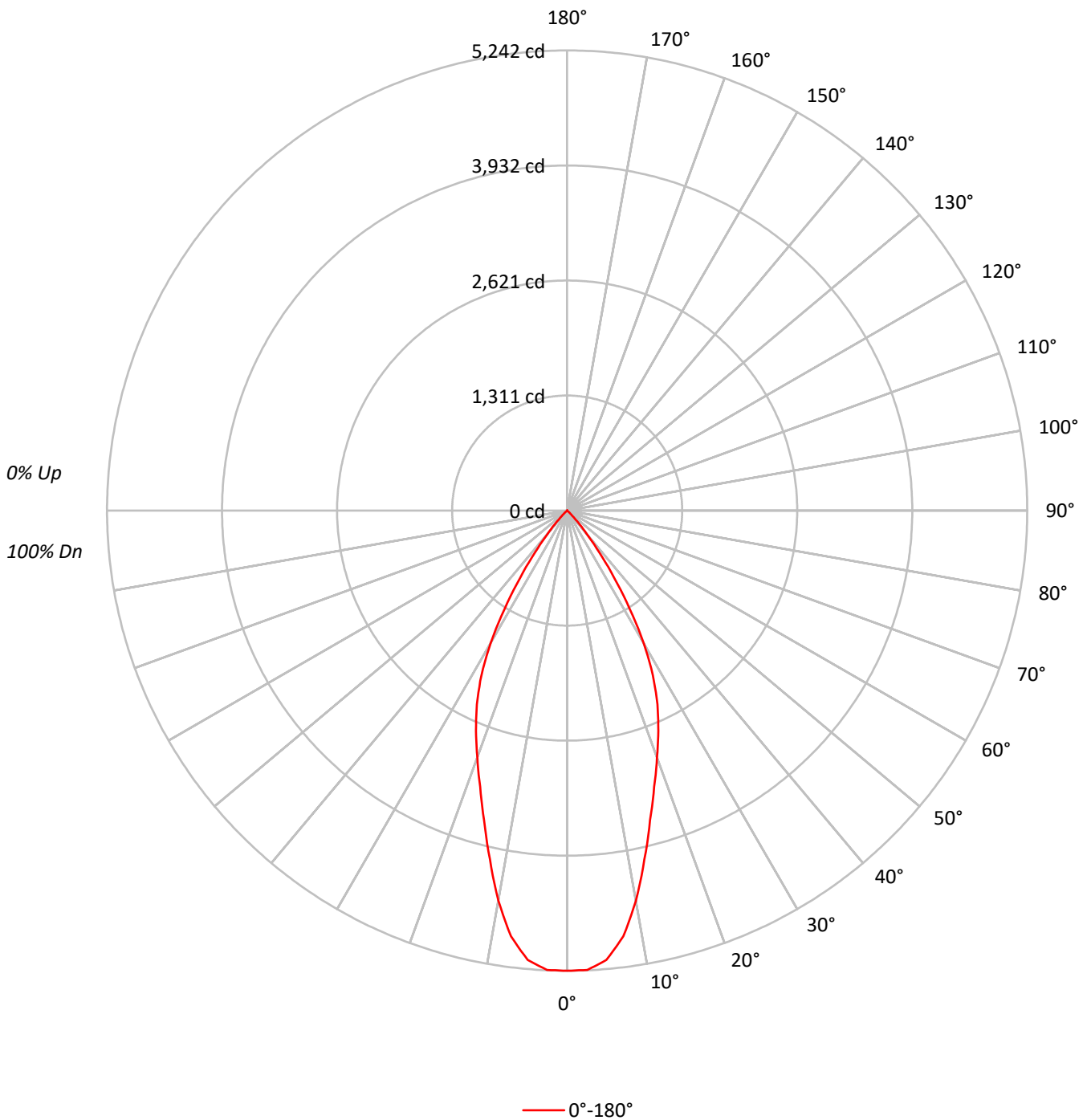
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P245656

CATALOG NUMBER: LSR8B40D010 EC8B40950 8LBN0GPH

Luminous Intensity Polar Plot





TEST NUMBER: P245656

CATALOG NUMBER: LSR8B40D010 EC8B40950 8LBN0GPH

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	179	179	179	179	175	175	175	175	167	167	167	160	160	160	153	153	153	150	150	150	150	150
1	171	167	164	161	168	164	161	158	158	156	153	153	151	149	147	146	145	142	142	142	142	142
2	164	157	151	147	160	154	149	145	150	145	142	145	142	139	141	138	136	133	133	133	133	133
3	156	147	140	135	153	145	139	134	141	136	132	138	133	130	134	131	128	125	125	125	125	125
4	149	139	131	125	147	137	130	124	134	128	123	131	126	122	128	124	120	118	118	118	118	118
5	142	131	123	117	140	129	122	116	127	120	115	124	119	114	122	117	113	111	111	111	111	111
6	136	124	115	109	134	122	115	109	120	113	108	118	112	107	116	111	107	105	105	105	105	105
7	130	117	109	103	128	116	108	102	114	107	102	112	106	101	111	105	101	99	99	99	99	99
8	124	111	103	97	122	110	102	97	108	101	96	107	101	96	106	100	95	94	94	94	94	94
9	119	105	97	92	117	105	97	91	103	96	91	102	95	91	101	95	90	89	89	89	89	89
10	114	100	92	87	112	100	92	87	98	91	86	97	91	86	96	90	86	84	84	84	84	84

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	161632
5°	159042
10°	141314
15°	116593
20°	98154
25°	82811
30°	61995
35°	35066
40°	13843
45°	3733
50°	715
55°	0
60°	93
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P245656

CATALOG NUMBER: LSR8B40D010 EC8B40950 8LBN0GPH

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	470.2	14.3	21.5	0°	5242	
10°-20°	1024.8	31.2	46.9	5°	5138	470
20°-30°	1097.7	33.4	50.3	15°	3652	1025
30°-40°	594.8	18.1	27.2	25°	2434	1098
40°-50°	92.6	2.8	4.2	35°	932	595
50°-60°	2.4	0.1	0.1	45°	86	93
60°-70°	0.6	0.0	0.0	55°	0	2
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°	2592.6	79.0	118.8	165°	0	0
0°-40°	3187.4	97.1	146.0	175°	0	0
0°-60°	3282.4	100.0	150.4	180°	0	0
0°-90°	3283.0	100.0	150.4			
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°	3283.0	100.0	150.4			



TEST NUMBER: P245656

CATALOG NUMBER: LSR8B40D010 EC8B40950 8LBN0GPH

CANDELA DISTRIBUTION (FULL):

0°	
0°	5241.6
2.5°	5237.3
5°	5138.0
7.5°	4893.1
10°	4513.1
12.5°	4068.3
15°	3652.2
17.5°	3299.1
20°	2991.1
22.5°	2714.7
25°	2433.9
27.5°	2115.2
30°	1741.1
32.5°	1328.0
35°	931.5
37.5°	596.5
40°	343.9
42.5°	183.3
45°	85.6
47.5°	46.7
50°	14.9
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



TEST NUMBER: P245656

CATALOG NUMBER: LSR8B40D010 EC8B40950 8LBN0GPH

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)