

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: P251355

Luminaire Tested: **LSR8B70D010 EC8B70835 8LBN0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P251355
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: LSR8B70D010 EC8B70835 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

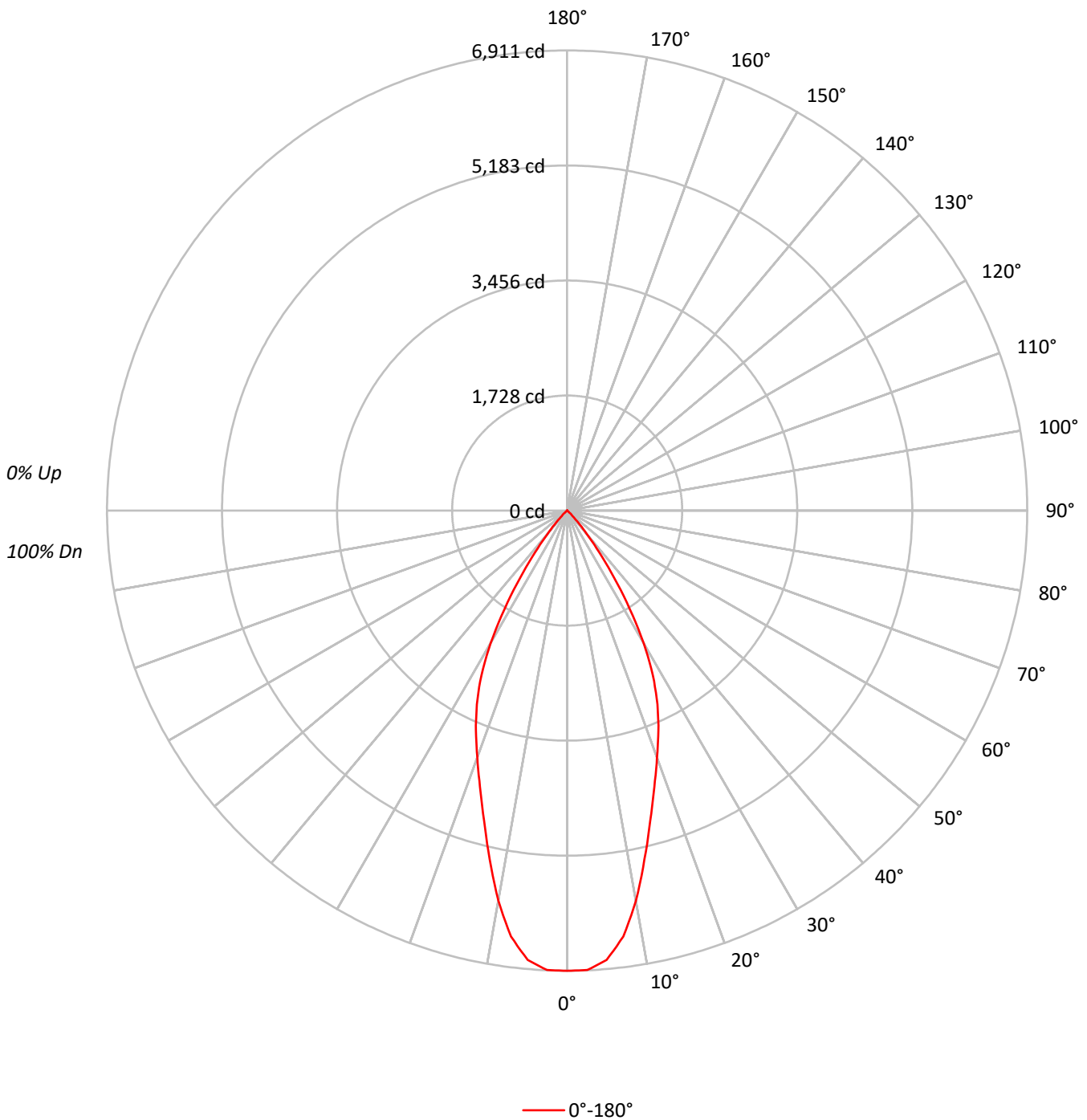
Lumens per Lamp: 1887 (1 lamp)
Luminaire Lumens: 4330.0 lumens
Efficiency: 229.5%
Efficacy: 57.0 lumens/watt
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.77
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 75.9
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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	273	273	273	273	267	267	267	267	255	255	255	244	244	244	234	234	234	229
1	261	256	250	245	256	251	246	242	241	238	234	233	230	227	225	223	221	217
2	250	239	231	224	245	235	228	221	228	222	216	221	216	212	215	211	207	204
3	238	225	214	206	234	222	212	204	216	208	201	210	204	198	205	200	195	191
4	228	212	200	191	224	209	198	190	204	195	188	200	192	185	195	189	183	180
5	217	199	187	178	214	197	186	177	193	183	176	190	181	174	186	179	173	169
6	207	188	176	167	204	187	175	166	183	173	165	180	171	164	177	169	163	160
7	198	178	166	157	195	177	165	156	174	163	155	171	162	155	169	160	154	151
8	189	169	156	148	187	168	156	147	165	155	147	163	153	146	161	152	146	143
9	181	161	148	140	179	160	148	139	158	147	139	156	146	138	154	145	138	135
10	174	153	141	132	171	152	140	132	150	139	132	148	138	131	147	138	131	128

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	213122
5°	209754
10°	186338
15°	153753
20°	129460
25°	109197
30°	81789
35°	46257
40°	18267
45°	4889
50°	983
55°	0
60°	142
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°	620.0	14.3	32.9	0°	6911	
10°-20°	1351.5	31.2	71.6	5°	6776	620
20°-30°	1447.8	33.4	76.7	15°	4816	1351
30°-40°	784.6	18.1	41.6	25°	3209	1448
40°-50°	121.8	2.8	6.5	35°	1229	785
50°-60°	3.5	0.1	0.2	45°	112	122
60°-70°	0.9	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°	3419.3	79.0	181.2	165°	0	0
0°-40°	4203.8	97.1	222.8	175°	0	0
0°-60°	4329.2	100.0	229.4	180°	0	0
0°-90°	4330.0	100.0	229.5			
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°	4330.0	100.0	229.5			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	6911.4
2.5°	6906.8
5°	6776.3
7.5°	6453.0
10°	5951.0
12.5°	5366.3
15°	4816.2
17.5°	4350.9
20°	3945.1
22.5°	3580.6
25°	3209.4
27.5°	2789.9
30°	2297.0
32.5°	1751.4
35°	1228.8
37.5°	786.5
40°	453.8
42.5°	242.9
45°	112.1
47.5°	59.5
50°	20.5
52.5°	2.3
55°	0.0
57.5°	2.3
60°	2.3
62.5°	0.0
65°	0.0
67.5°	2.3
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)