

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: P251357

Luminaire Tested: **LSR8B70D010 EC8B70840 8LBN0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P251357  
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 EC8B70840 8LBN0B  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 4000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 1887 (1 lamp)  
Luminaire Lumens: 4301.0 lumens  
Efficiency: 227.9%  
Efficacy: 56.7 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

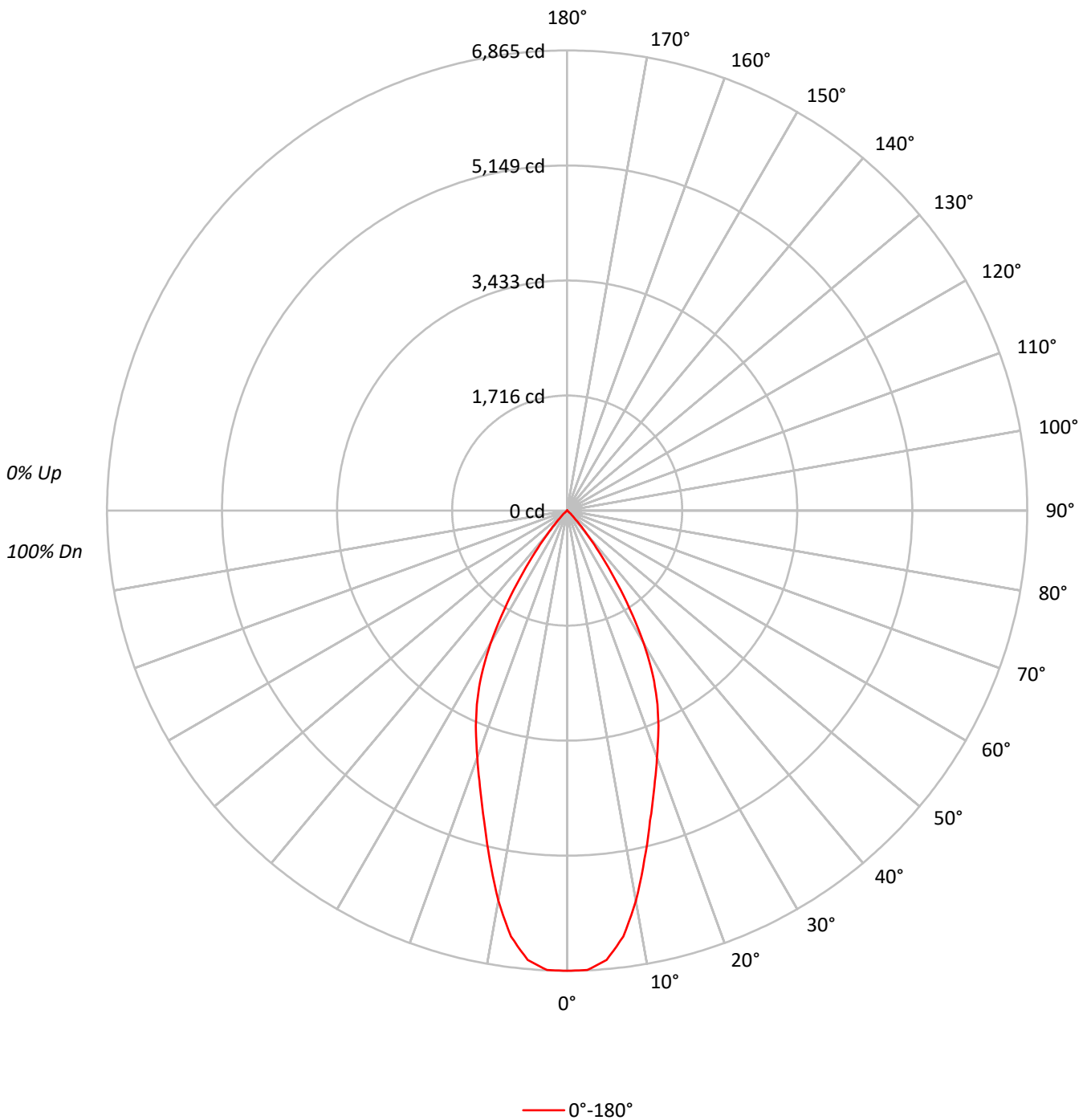
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	271	271	271	271	265	265	265	265	253	253	253	242	242	242	233	233	233	228		
1	260	254	249	244	254	249	244	240	240	236	233	231	228	226	224	221	219	215		
2	248	238	229	222	243	234	226	220	227	220	215	220	215	210	214	210	206	202		
3	237	223	213	204	232	220	211	203	214	206	200	209	202	197	204	198	194	190		
4	226	210	199	190	222	208	197	188	203	194	186	198	190	184	194	188	182	179		
5	216	198	186	177	212	196	185	176	192	182	174	188	180	173	185	177	172	168		
6	206	187	175	166	203	185	174	165	182	172	164	179	170	163	176	168	162	159		
7	197	177	165	156	194	176	164	155	173	162	154	170	161	154	168	159	153	150		
8	188	168	155	147	185	167	155	146	164	154	146	162	152	145	160	151	145	142		
9	180	160	147	139	178	159	147	138	156	146	138	155	145	138	153	144	137	134		
10	172	152	140	131	170	151	139	131	149	138	131	147	138	131	146	137	130	127		

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	211694
5°	208349
10°	185088
15°	152722
20°	128593
25°	108465
30°	81240
35°	45948
40°	18146
45°	4854
50°	979
55°	0
60°	136
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°	615.9	14.3	32.6	0°	6865	
10°-20°	1342.4	31.2	71.1	5°	6731	616
20°-30°	1438.1	33.4	76.2	15°	4784	1342
30°-40°	779.3	18.1	41.3	25°	3188	1438
40°-50°	121.0	2.8	6.4	35°	1221	779
50°-60°	3.4	0.1	0.2	45°	111	121
60°-70°	0.8	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°	3396.4	79.0	180.0	165°	0	0
0°-40°	4175.7	97.1	221.3	175°	0	0
0°-60°	4300.2	100.0	227.9	180°	0	0
0°-90°	4301.0	100.0	227.9			
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°	4301.0	100.0	227.9			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	6865.1
2.5°	6860.6
5°	6730.9
7.5°	6409.8
10°	5911.1
12.5°	5330.4
15°	4783.9
17.5°	4321.8
20°	3918.7
22.5°	3556.7
25°	3187.9
27.5°	2771.2
30°	2281.6
32.5°	1739.7
35°	1220.6
37.5°	781.3
40°	450.8
42.5°	241.3
45°	111.3
47.5°	59.1
50°	20.4
52.5°	2.2
55°	0.0
57.5°	2.2
60°	2.2
62.5°	0.0
65°	0.0
67.5°	2.2
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)