

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: P245627

Luminaire Tested: **LSR8B50D010 EC8B50850 8LBN0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245627
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: LSR8B50D010 EC8B50850 8LBN0GPH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 2183 (1 lamp)
Luminaire Lumens: 4512.0 lumens
Efficiency: 206.7%
Efficacy: 85.1 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

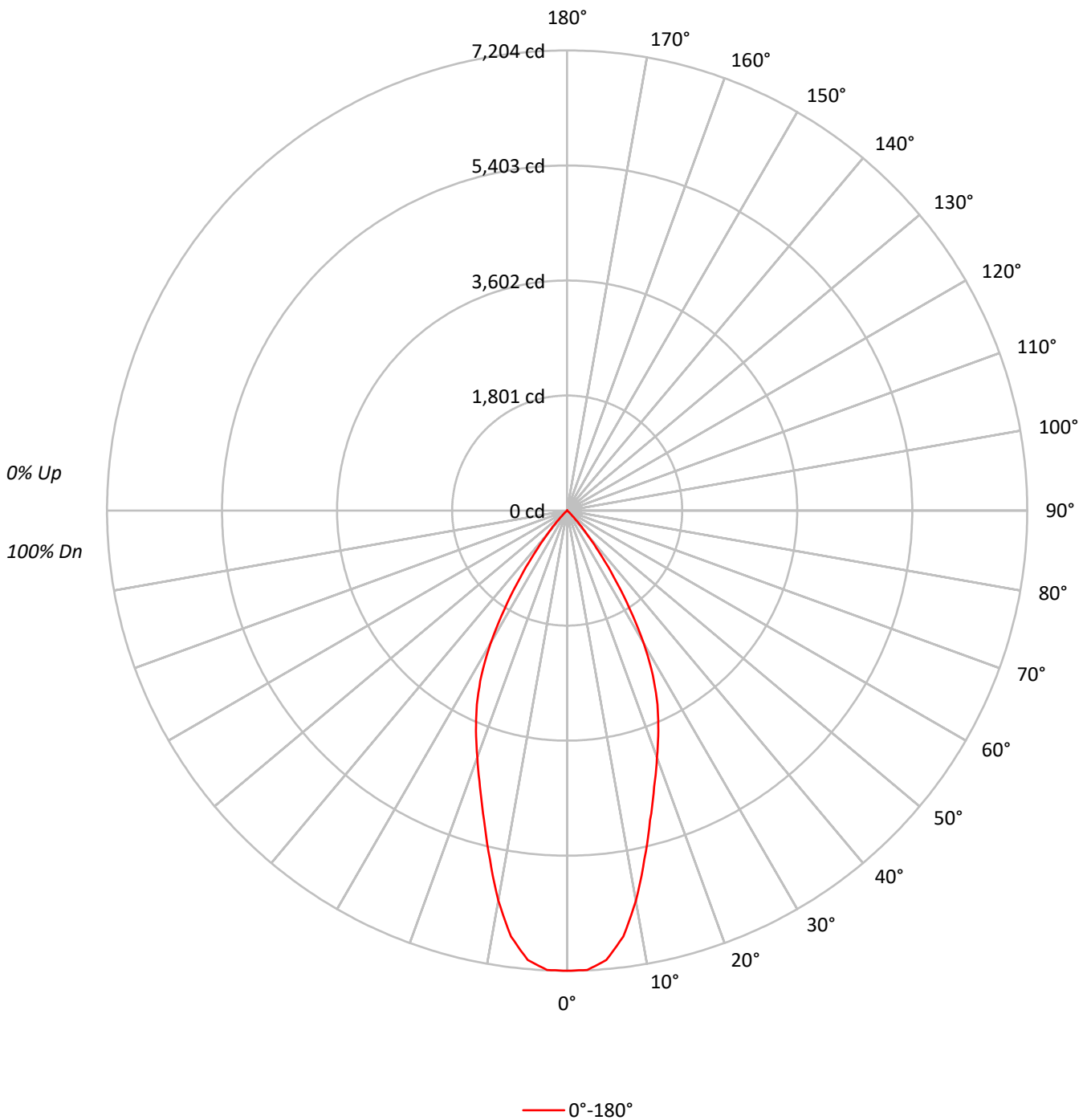
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	246	246	246	246	240	240	240	240	230	230	230	220	220	220	211	211	211	207		
1	235	230	225	221	230	226	221	218	217	214	211	210	207	205	203	201	199	195		
2	225	216	208	201	220	212	205	199	205	200	195	199	195	191	194	190	187	183		
3	215	202	193	185	211	200	191	184	194	187	181	189	183	178	185	180	176	172		
4	205	191	180	172	201	188	178	171	184	176	169	180	173	167	176	170	165	162		
5	196	180	169	160	192	178	167	160	174	165	158	171	163	157	168	161	156	153		
6	187	170	158	150	184	168	157	150	165	156	149	162	154	148	160	152	147	144		
7	178	161	149	141	176	159	148	141	157	147	140	154	146	139	152	144	139	136		
8	171	152	141	133	168	151	140	133	149	139	132	147	138	132	145	137	131	129		
9	163	145	133	126	161	144	133	126	142	132	125	140	131	125	138	130	124	122		
10	156	138	127	119	154	137	126	119	135	125	119	134	125	118	132	124	118	116		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	222139
5°	218579
10°	194213
15°	160243
20°	134897
25°	113811
30°	85203
35°	48192
40°	19028
45°	5128
50°	983
55°	0
60°	123
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°	646.2	14.3	29.6	0°	7204	
10°-20°	1408.4	31.2	64.5	5°	7061	646
20°-30°	1508.6	33.4	69.1	15°	5020	1408
30°-40°	817.5	18.1	37.4	25°	3345	1509
40°-50°	127.2	2.8	5.8	35°	1280	818
50°-60°	3.3	0.1	0.2	45°	118	127
60°-70°	0.7	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°	3563.2	79.0	163.2	165°	0	0
0°-40°	4380.7	97.1	200.7	175°	0	0
0°-60°	4511.2	100.0	206.7	180°	0	0
0°-90°	4512.0	100.0	206.7			
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°	4512.0	100.0	206.7			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	7203.8
2.5°	7197.9
5°	7061.4
7.5°	6724.8
10°	6202.5
12.5°	5591.3
15°	5019.5
17.5°	4534.2
20°	4110.8
22.5°	3731.0
25°	3345.0
27.5°	2907.1
30°	2392.9
32.5°	1825.2
35°	1280.2
37.5°	819.9
40°	472.7
42.5°	251.9
45°	117.6
47.5°	64.2
50°	20.5
52.5°	2.0
55°	0.0
57.5°	2.0
60°	2.0
62.5°	0.0
65°	0.0
67.5°	2.0
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)