

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: P251109

Luminaire Tested: **LSR8B70D010 EC8B70835 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P251109
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P200903)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B70D010 EC8B70835 8LBW0WH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7774.0 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.11
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

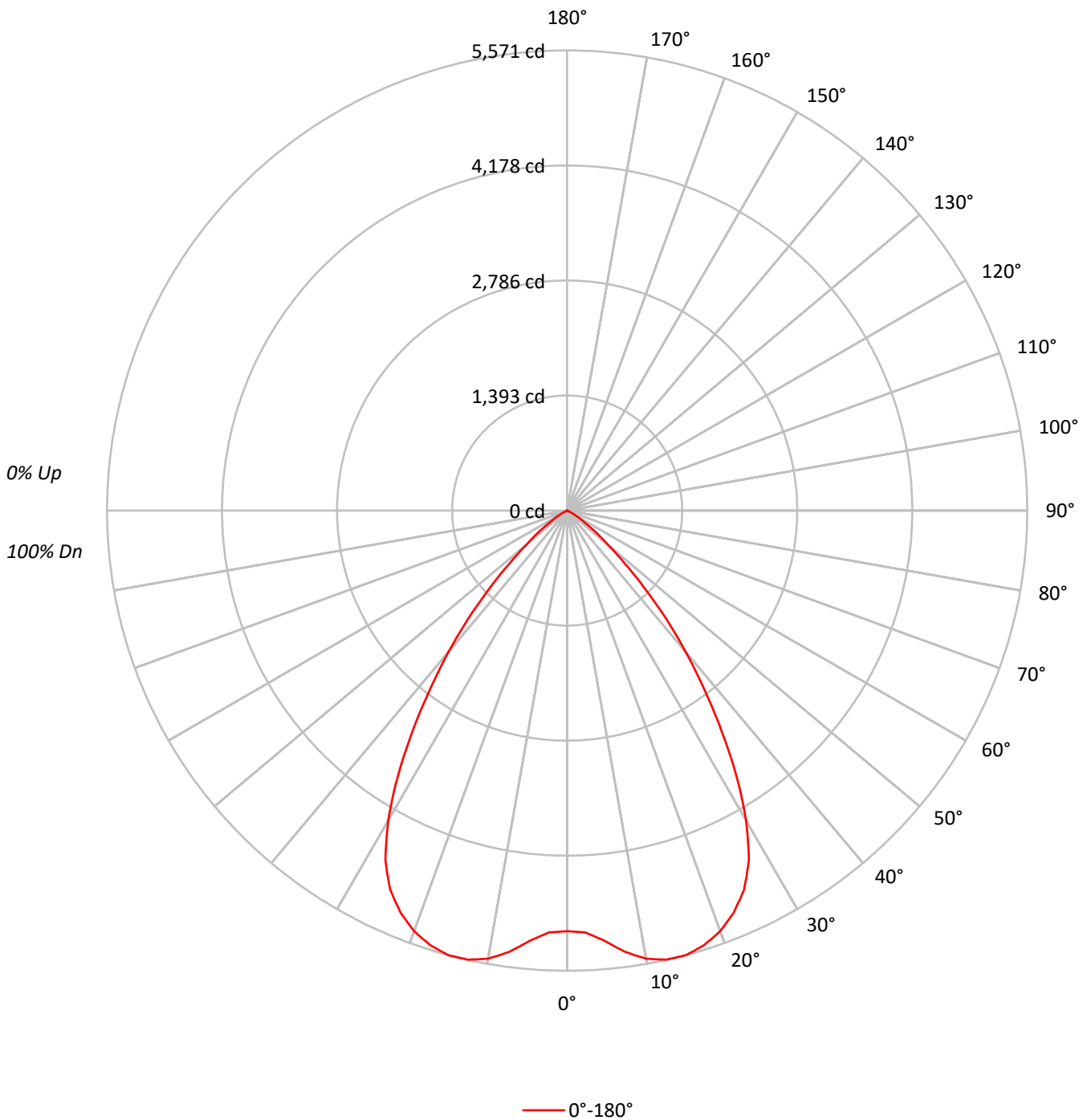
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78	77
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70
5	89	79	73	68	87	78	72	67	76	71	67	75	70	66	73	69	66	64
6	83	73	67	62	82	73	66	62	71	65	61	69	64	61	68	64	60	59
7	78	68	61	57	77	67	61	56	66	60	56	65	60	56	64	59	55	54
8	74	63	57	52	73	63	56	52	62	56	52	61	55	51	59	55	51	50
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46
10	66	55	49	45	65	55	49	44	54	48	44	53	48	44	52	48	44	43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	157040
5°	161856
10°	172517
15°	177836
20°	177826
25°	172393
30°	154295
35°	122893
40°	89794
45°	57355
50°	31019
55°	15946
60°	6926
65°	1423
70°	983
75°	0
80°	320
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	508.9	6.5
10°-20°	1566.0	20.1
20°-30°	2297.5	29.6
30°-40°	2029.6	26.1
40°-50°	1039.6	13.4
50°-60°	290.7	3.7
60°-70°	37.1	0.5
70°-80°	3.8	0.0
80°-90°	0.7	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4372.4	56.2
0°-40°	6402.0	82.4
0°-60°	7732.3	99.5
0°-90°	7774.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7774.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5093	
5°	5229	509
15°	5571	1566
25°	5067	2298
35°	3265	2030
45°	1315	1040
55°	297	291
65°	20	37
75°	0	4
85°	0	1
90°	0	0
95°	0	0
105°	0	0
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	0



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5092.7
2.5°	5112.2
5°	5228.9
7.5°	5388.6
10°	5509.6
12.5°	5568.6
15°	5570.6
17.5°	5514.6
20°	5419.0
22.5°	5267.9
25°	5066.8
27.5°	4766.8
30°	4333.3
32.5°	3819.5
35°	3264.6
37.5°	2723.8
40°	2230.7
42.5°	1765.2
45°	1315.2
47.5°	938.7
50°	646.6
52.5°	451.9
55°	296.6
57.5°	188.4
60°	112.3
62.5°	58.3
65°	19.5
67.5°	12.7
70°	10.9
72.5°	6.4
75°	0.0
77.5°	1.8
80°	1.8
82.5°	1.8
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)