

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: P250799

Luminaire Tested: **LSR8B70D010 EC8B70840 8LBW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250799
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27941)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B70D010 EC8B70840 8LBW0LI
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7892.0 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.17
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

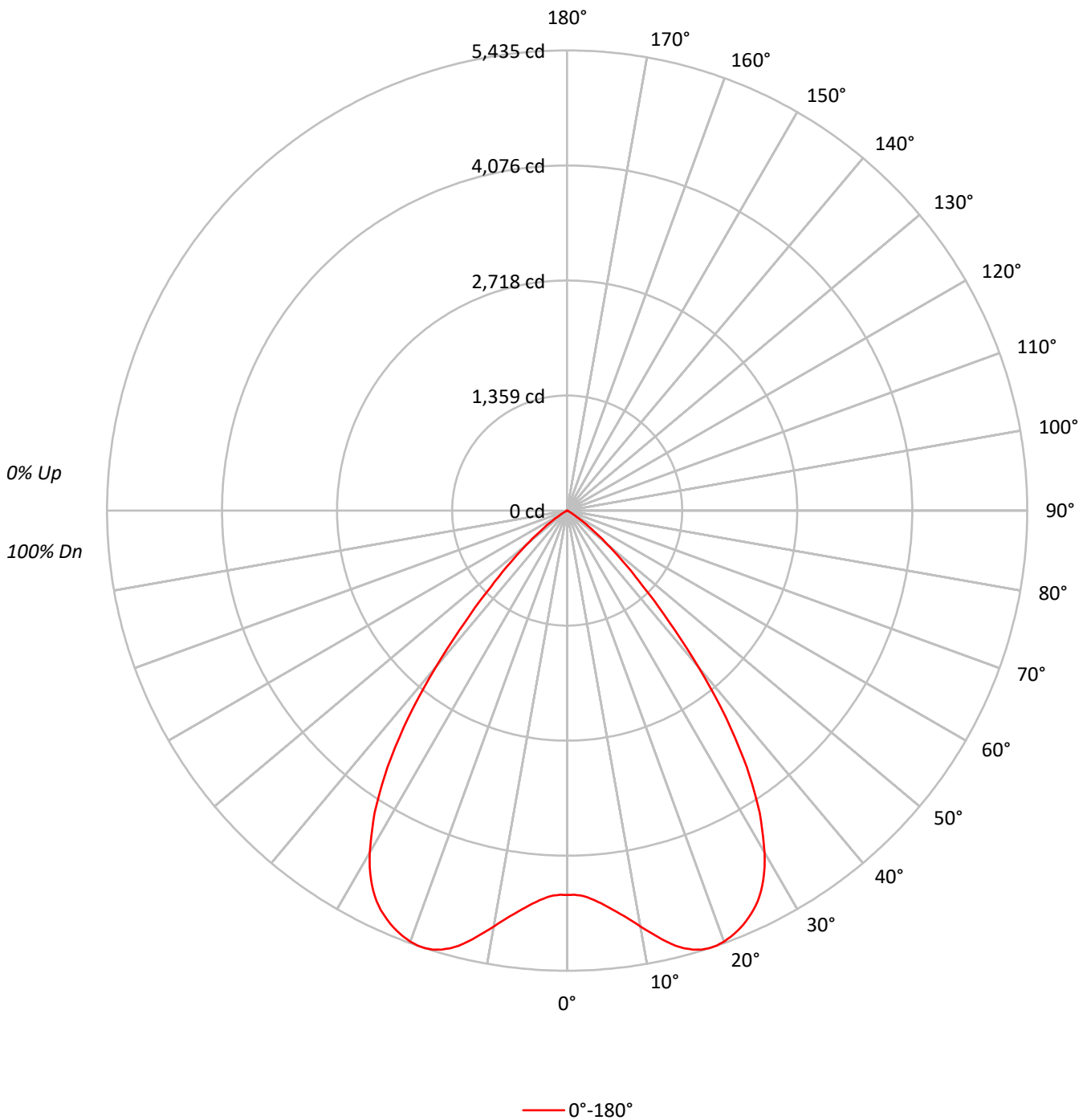
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	79	75	92	84	79	74	82	77	73	80	76	72	78	75	72	70
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	63	60	58
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51	49
9	70	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	140022
5°	144166
10°	156178
15°	170880
20°	177774
25°	177123
30°	166141
35°	139317
40°	97000
45°	55554
50°	29834
55°	12306
60°	3065
65°	788
70°	388
75°	262
80°	391
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	455.3	5.8
10°-20°	1508.6	19.1
20°-30°	2373.7	30.1
30°-40°	2257.9	28.6
40°-50°	1040.9	13.2
50°-60°	236.5	3.0
60°-70°	15.6	0.2
70°-80°	3.1	0.0
80°-90°	0.3	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°	4337.6	55.0
0°-40°	6595.5	83.6
0°-60°	7873.0	99.8
0°-90°	7892.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7892.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4541	
5°	4657	455
15°	5353	1509
25°	5206	2374
35°	3701	2258
45°	1274	1041
55°	229	237
65°	11	16
75°	2	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4540.8
1°	4538.7
2°	4547.3
3°	4573.2
4°	4612.1
5°	4657.4
6°	4713.5
7°	4774.0
8°	4836.6
9°	4910.0
10°	4987.8
11°	5065.5
12°	5147.5
13°	5225.3
14°	5296.5
15°	5352.7
16°	5393.7
17°	5421.8
18°	5434.7
19°	5432.6
20°	5417.4
21°	5391.5
22°	5359.1
23°	5316.0
24°	5266.3
25°	5205.8
26°	5134.6
27°	5043.9
28°	4935.9
29°	4810.7
30°	4666.0
32.5°	4232.0
35°	3700.9
37.5°	3083.3
40°	2409.7
42.5°	1781.3
45°	1273.9
47.5°	902.5
50°	621.9
52.5°	397.3
55°	228.9
57.5°	114.4
60°	49.7
62.5°	19.4
65°	10.8



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	6.5
70°	4.3
72.5°	4.3
75°	2.2
77.5°	2.2
80°	2.2
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)