

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: P250801

Luminaire Tested: **LSR8B70D010 EC8B70850 8LBW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250801
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 EC8B70850 8LBW0LI
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8047.0 lumens
Efficiency: N/A
Efficacy: 106.0 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

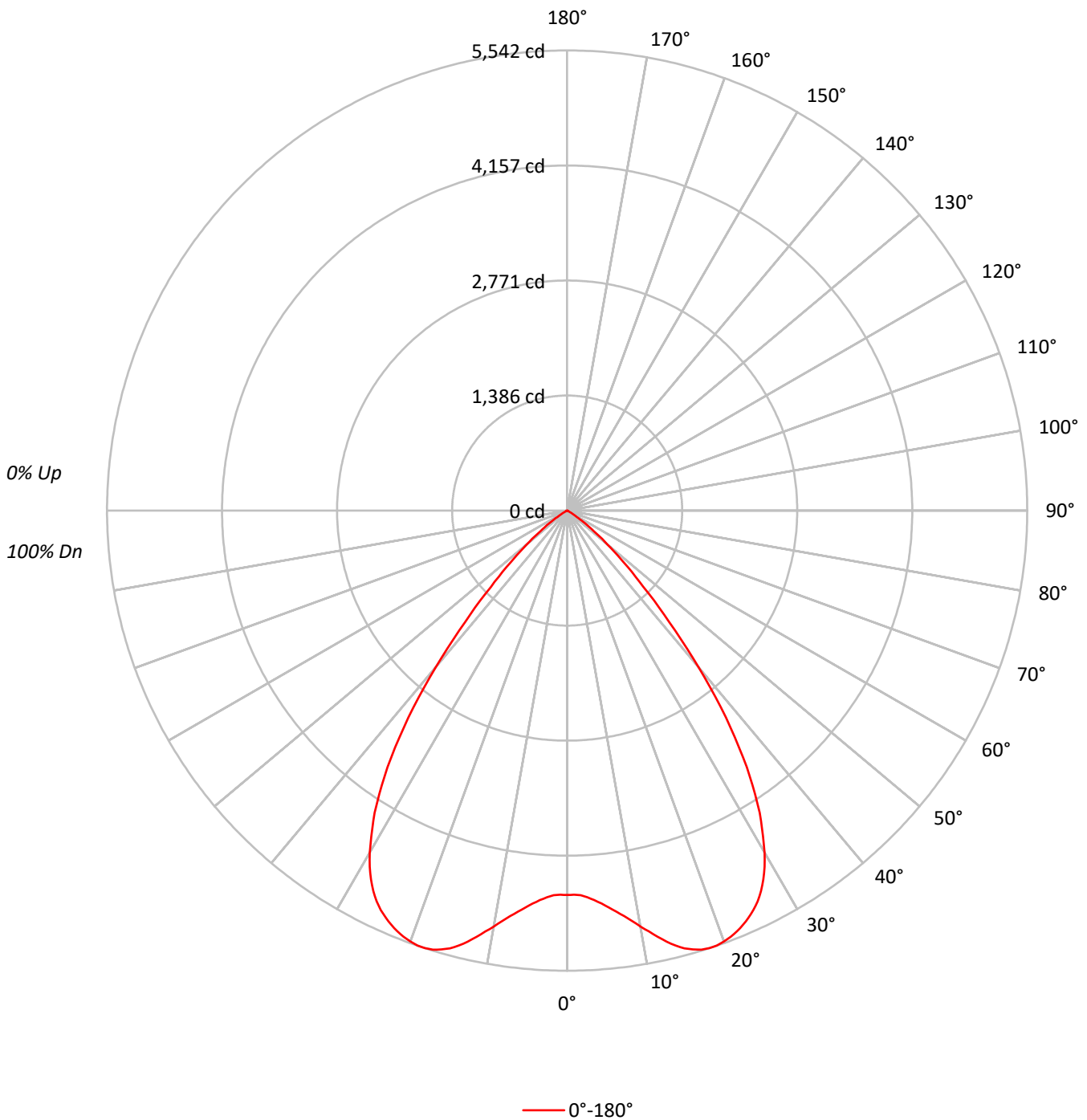
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	142772
5°	146998
10°	159244
15°	174235
20°	181265
25°	180603
30°	169406
35°	142054
40°	98904
45°	56648
50°	30420
55°	12548
60°	3121
65°	803
70°	397
75°	262
80°	391
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	464.2	5.8
10°-20°	1538.2	19.1
20°-30°	2420.3	30.1
30°-40°	2302.3	28.6
40°-50°	1061.4	13.2
50°-60°	241.2	3.0
60°-70°	15.9	0.2
70°-80°	3.2	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°	4422.8	55.0
0°-40°	6725.1	83.6
0°-60°	8027.7	99.8
0°-90°	8047.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8047.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4630	
5°	4749	464
15°	5458	1538
25°	5308	2420
35°	3774	2302
45°	1299	1061
55°	233	241
65°	11	16
75°	2	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4630.0
1°	4627.8
2°	4636.6
3°	4663.0
4°	4702.6
5°	4748.9
6°	4806.1
7°	4867.8
8°	4931.6
9°	5006.5
10°	5085.7
11°	5165.0
12°	5248.6
13°	5327.9
14°	5400.6
15°	5457.8
16°	5499.6
17°	5528.3
18°	5541.5
19°	5539.3
20°	5523.8
21°	5497.4
22°	5464.4
23°	5420.4
24°	5369.7
25°	5308.1
26°	5235.4
27°	5143.0
28°	5032.9
29°	4905.2
30°	4757.7
32.5°	4315.2
35°	3773.6
37.5°	3143.9
40°	2457.0
42.5°	1816.3
45°	1299.0
47.5°	920.3
50°	634.1
52.5°	405.1
55°	233.4
57.5°	116.7
60°	50.6
62.5°	19.8
65°	11.0



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	6.6
70°	4.4
72.5°	4.4
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)