

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: P251417

Luminaire Tested: **LSR8B70D010 EC8B70827 8LBW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P251417
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-48)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B70D010 EC8B70827 8LBW0MW
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7199.0 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

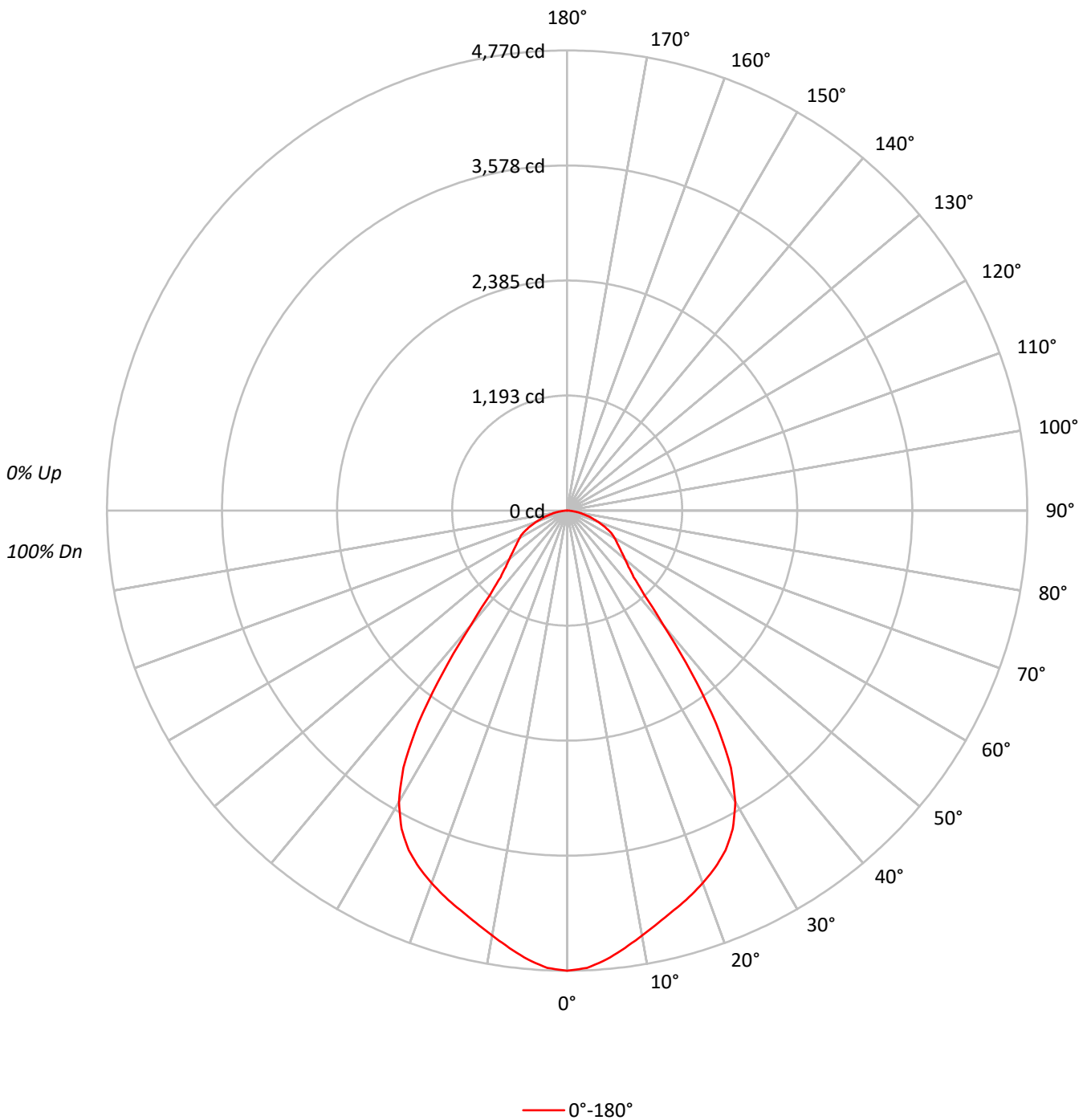
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	86	83	80	78
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	51
7	74	62	55	49	72	61	54	49	60	54	49	59	53	49	57	52	48	47
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	147083
5°	144608
10°	140059
15°	136820
20°	134871
25°	132224
30°	124146
35°	101338
40°	62776
45°	42519
50°	37462
55°	35354
60°	35061
65°	33987
70°	30465
75°	26390
80°	22304
85°	17761



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	439.5	6.1
10°-20°	1210.5	16.8
20°-30°	1775.2	24.7
30°-40°	1622.6	22.5
40°-50°	803.3	11.2
50°-60°	594.0	8.3
60°-70°	456.6	6.3
70°-80°	238.0	3.3
80°-90°	59.3	0.8
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°	3425.1	47.6
0°-40°	5047.7	70.1
0°-60°	6445.1	89.5
0°-90°	7199.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7199.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4770	
5°	4672	439
15°	4286	1210
25°	3886	1775
35°	2692	1623
45°	975	803
55°	658	594
65°	466	457
75°	222	238
85°	50	59
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4769.8
2.5°	4744.7
5°	4671.7
7.5°	4573.5
10°	4473.0
12.5°	4374.8
15°	4285.8
17.5°	4201.3
20°	4110.0
22.5°	4007.2
25°	3886.2
27.5°	3719.5
30°	3486.6
32.5°	3160.1
35°	2692.0
37.5°	2112.1
40°	1559.5
42.5°	1180.5
45°	975.0
47.5°	863.1
50°	780.9
52.5°	714.7
55°	657.6
57.5°	609.6
60°	568.5
62.5°	525.2
65°	465.8
67.5°	401.9
70°	337.9
72.5°	278.6
75°	221.5
77.5°	171.2
80°	125.6
82.5°	86.8
85°	50.2
87.5°	18.3
90°	0.0

(END OF REPORT)