

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: P250951

Luminaire Tested: **LSR8B70D010 EC8B70935 8LBN0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250951
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27944)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B70D010 EC8B70935 8LBN0H
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5815.0 lumens
Efficiency: N/A
Efficacy: 76.6 lumens/watt
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.79
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

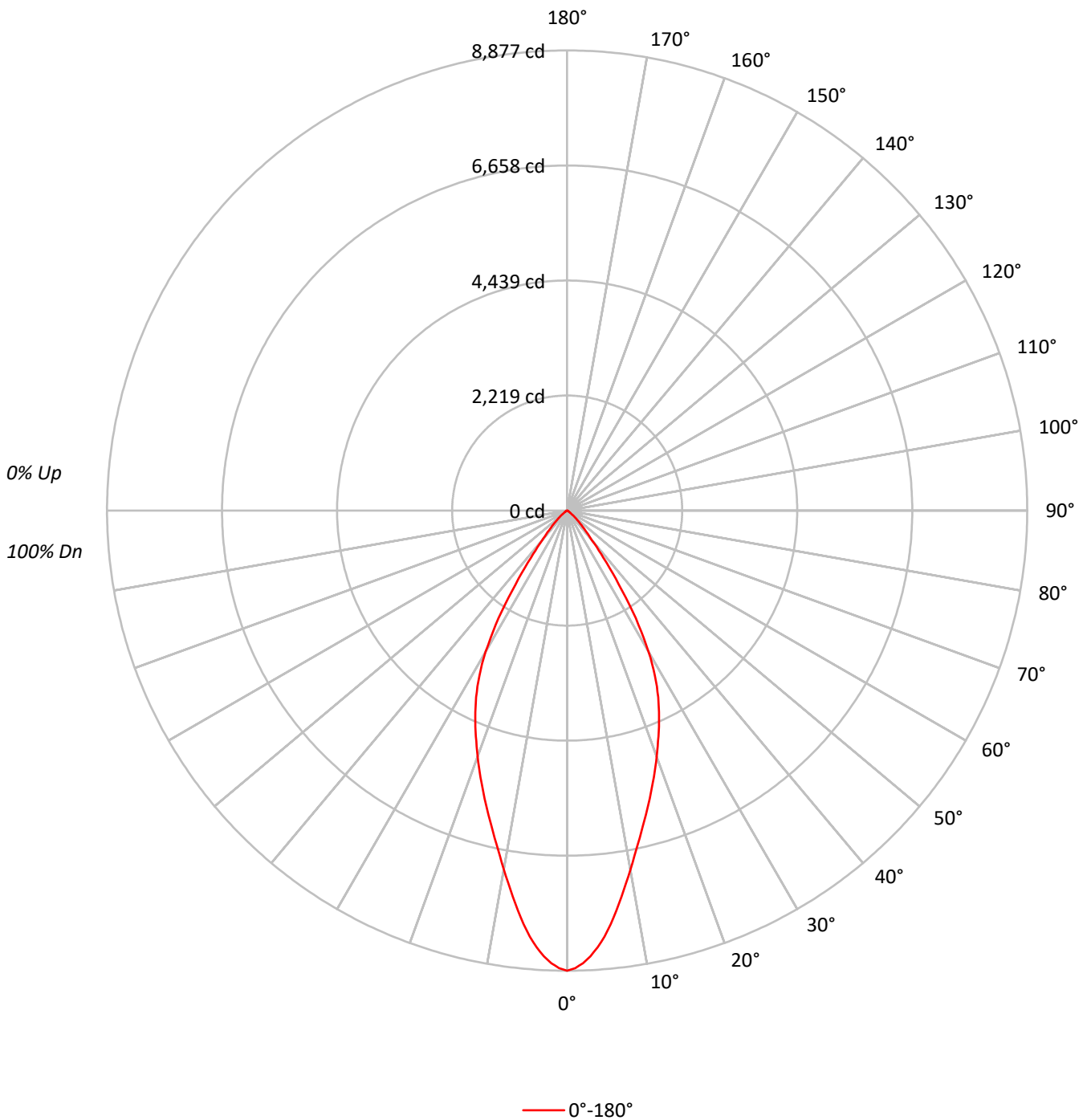
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	111	109	106	111	109	107	105	105	103	101		101	100	98		98	97	96	94
2	108	104	100	96	106	102	98	95	99	96	93		96	93	91		93	91	89	88
3	103	97	92	88	101	95	91	87	93	89	86		90	87	85		88	86	83	82
4	98	91	85	81	96	90	85	81	87	83	80		85	82	79		84	80	78	76
5	93	85	79	75	92	84	79	75	82	78	74		81	77	74		79	76	73	72
6	89	80	74	70	87	79	74	70	78	73	69		76	72	69		75	71	69	67
7	85	76	70	66	83	75	69	65	74	69	65		72	68	65		71	67	64	63
8	81	71	66	62	79	71	65	61	70	65	61		69	64	61		68	64	61	59
9	77	68	62	58	76	67	62	58	66	61	58		65	61	58		64	60	57	56
10	74	64	59	55	73	64	58	55	63	58	55		62	58	54		61	57	54	53

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	273725
5°	255316
10°	220083
15°	190466
20°	165688
25°	142391
30°	111883
35°	65279
40°	30118
45°	15586
50°	7820
55°	3801
60°	1937
65°	1146
70°	532
75°	465
80°	355
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	746.5	12.8
10°-20°	1668.2	28.7
20°-30°	1896.6	32.6
30°-40°	1113.9	19.2
40°-50°	298.9	5.1
50°-60°	70.9	1.2
60°-70°	16.2	0.3
70°-80°	3.6	0.1
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°	4311.2	74.1
0°-40°	5425.1	93.3
0°-60°	5794.9	99.7
0°-90°	5815.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5815.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8877	
5°	8248	746
15°	5966	1668
25°	4185	1897
35°	1734	1114
45°	357	299
55°	71	71
65°	16	16
75°	4	4
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	8876.7
1°	8827.6
2°	8737.2
3°	8609.6
4°	8444.6
5°	8248.2
6°	8026.3
7°	7774.9
8°	7523.6
9°	7270.2
10°	7028.7
11°	6793.0
12°	6571.1
13°	6364.9
14°	6158.7
15°	5966.2
16°	5777.7
17°	5591.1
18°	5410.4
19°	5227.8
20°	5049.1
21°	4870.4
22°	4699.5
23°	4530.6
24°	4357.8
25°	4185.0
26°	4006.3
27°	3811.9
28°	3607.6
29°	3383.7
30°	3142.2
32.5°	2464.6
35°	1734.1
37.5°	1143.0
40°	748.2
42.5°	516.5
45°	357.4
47.5°	245.5
50°	163.0
52.5°	106.0
55°	70.7
57.5°	47.1
60°	31.4
62.5°	21.6
65°	15.7



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	9.8
70°	5.9
72.5°	3.9
75°	3.9
77.5°	2.0
80°	2.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)