

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: P249784

Luminaire Tested: **LSR8B80D010 EC8B80827 8LBN0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249784
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13959)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B80827 8LBN0H
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7072.1 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.81
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

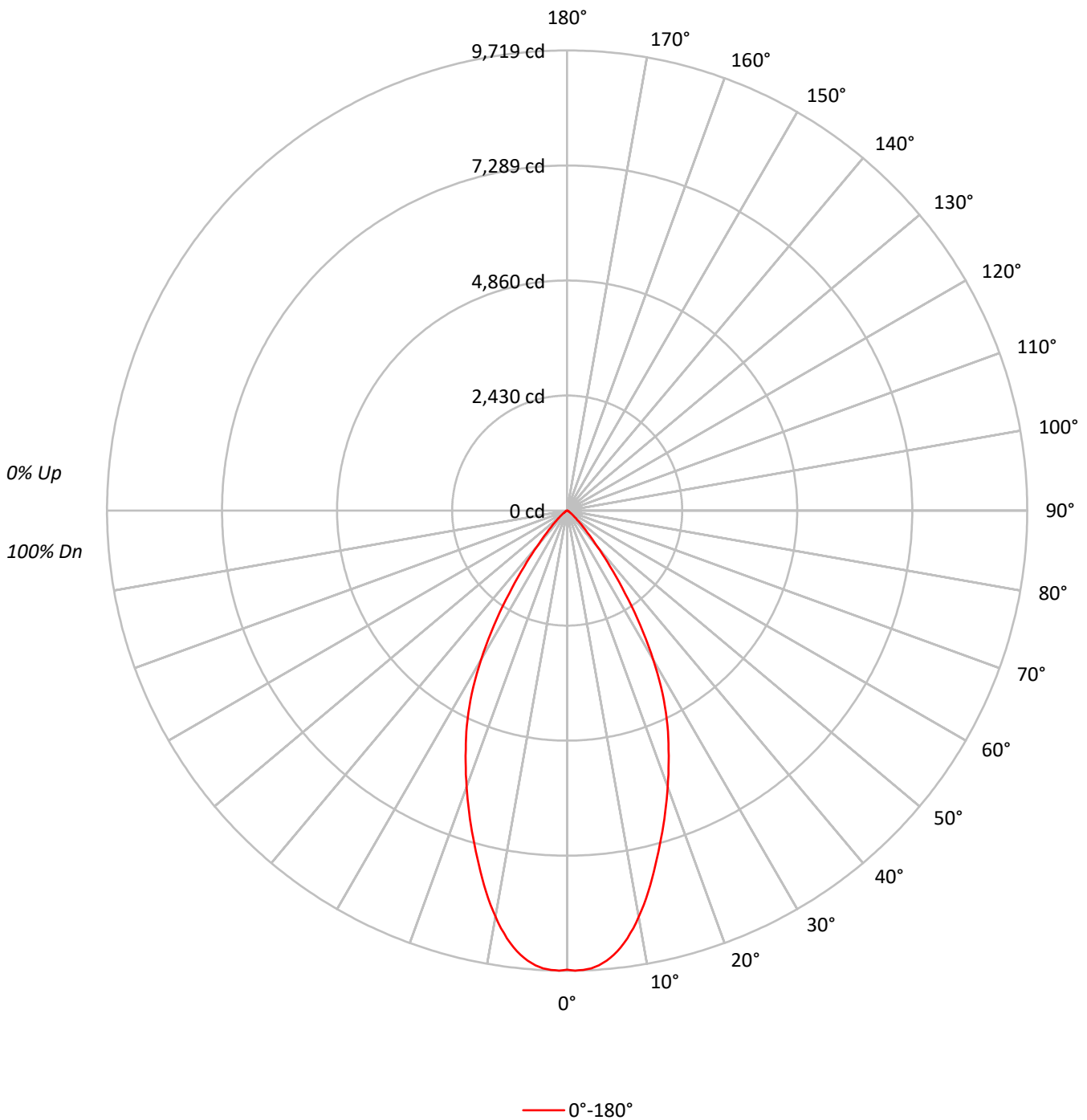
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	299103
5°	295429
10°	272843
15°	237914
20°	203796
25°	170590
30°	129783
35°	80449
40°	39690
45°	18891
50°	9187
55°	4505
60°	2806
65°	1919
70°	1082
75°	858
80°	852
85°	849



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	884.5	12.5
10°-20°	2076.5	29.4
20°-30°	2269.6	32.1
30°-40°	1350.6	19.1
40°-50°	370.5	5.2
50°-60°	83.9	1.2
60°-70°	25.9	0.4
70°-80°	7.9	0.1
80°-90°	2.6	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°	5230.6	74.0
0°-40°	6581.2	93.1
0°-60°	7035.6	99.5
0°-90°	7072.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7072.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9700	
5°	9544	885
15°	7452	2077
25°	5014	2270
35°	2137	1351
45°	433	370
55°	84	84
65°	26	26
75°	7	8
85°	2	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	9699.7
1°	9718.9
2°	9706.9
3°	9683.0
4°	9627.9
5°	9544.1
6°	9436.5
7°	9292.9
8°	9125.3
9°	8931.5
10°	8713.7
11°	8481.6
12°	8232.7
13°	7976.6
14°	7710.9
15°	7452.5
16°	7198.8
17°	6949.9
18°	6701.0
19°	6452.1
20°	6210.4
22.5°	5602.5
25°	5013.8
27.5°	4365.2
30°	3644.9
32.5°	2871.9
35°	2137.1
37.5°	1486.2
40°	986.0
42.5°	646.2
45°	433.2
47.5°	287.2
50°	191.5
52.5°	117.3
55°	83.8
57.5°	59.8
60°	45.5
62.5°	33.5
65°	26.3
67.5°	16.8
70°	12.0
72.5°	9.6
75°	7.2
77.5°	4.8
80°	4.8



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CANDELA DISTRIBUTION (continued):

	0°
82.5°	2.4
85°	2.4
87.5°	2.4
90°	0.0

(END OF REPORT)