

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: P249833

Luminaire Tested: **LSR8B80D010 EC8B80935 8LBN0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249833
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 EC8B80935 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: 6428.0 lumens
Efficiency: N/A
Efficacy: 86.4 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

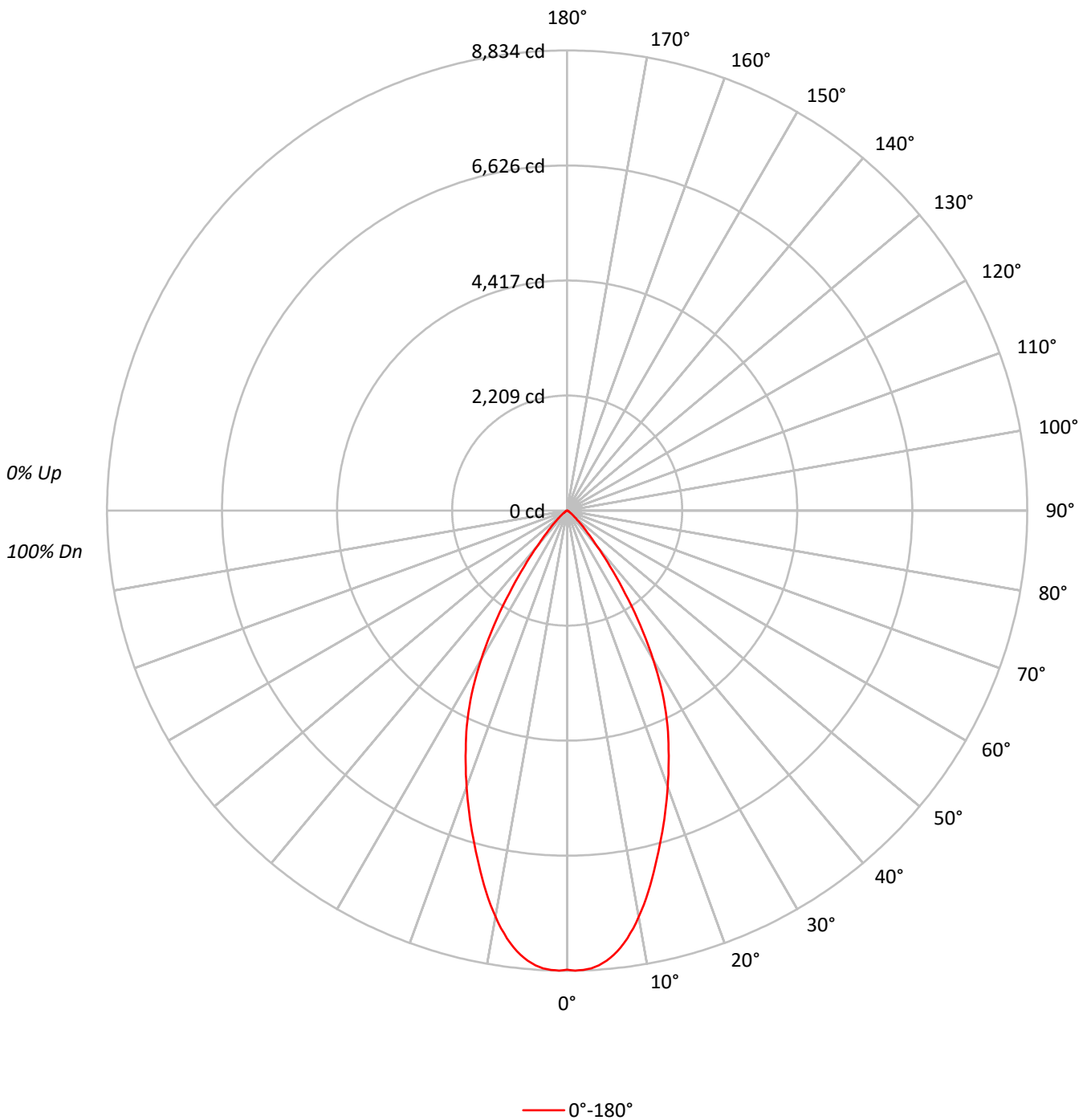
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	271865
5°	268527
10°	247997
15°	216247
20°	185239
25°	155055
30°	117965
35°	73124
40°	36076
45°	17169
50°	8347
55°	4091
60°	2547
65°	1744
70°	983
75°	774
80°	781
85°	778



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	804.0	12.5
10°-20°	1887.4	29.4
20°-30°	2062.9	32.1
30°-40°	1227.6	19.1
40°-50°	336.7	5.2
50°-60°	76.3	1.2
60°-70°	23.6	0.4
70°-80°	7.2	0.1
80°-90°	2.4	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°	4754.3	74.0
0°-40°	5981.9	93.1
0°-60°	6394.9	99.5
0°-90°	6428.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6428.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8816	
5°	8675	804
15°	6774	1887
25°	4557	2063
35°	1942	1228
45°	394	337
55°	76	76
65°	24	24
75°	6	7
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	8816.4
1°	8833.8
2°	8822.9
3°	8801.2
4°	8751.2
5°	8675.0
6°	8577.1
7°	8446.6
8°	8294.4
9°	8118.2
10°	7920.2
11°	7709.2
12°	7483.0
13°	7250.2
14°	7008.8
15°	6773.8
16°	6543.2
17°	6317.0
18°	6090.8
19°	5864.6
20°	5644.9
22.5°	5092.3
25°	4557.2
27.5°	3967.7
30°	3313.0
32.5°	2610.3
35°	1942.5
37.5°	1350.9
40°	896.2
42.5°	587.3
45°	393.7
47.5°	261.0
50°	174.0
52.5°	106.6
55°	76.1
57.5°	54.4
60°	41.3
62.5°	30.5
65°	23.9
67.5°	15.2
70°	10.9
72.5°	8.7
75°	6.5
77.5°	4.4
80°	4.4



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CANDELA DISTRIBUTION (continued):

	0°
82.5°	2.2
85°	2.2
87.5°	2.2
90°	0.0

(END OF REPORT)