

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: P249798

Luminaire Tested: **LSR8B80D010 EC8B80835 8LBN0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249798
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 EC8B80835 8LBN0H
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7538.1 lumens
Efficiency: N/A
Efficacy: 101.3 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

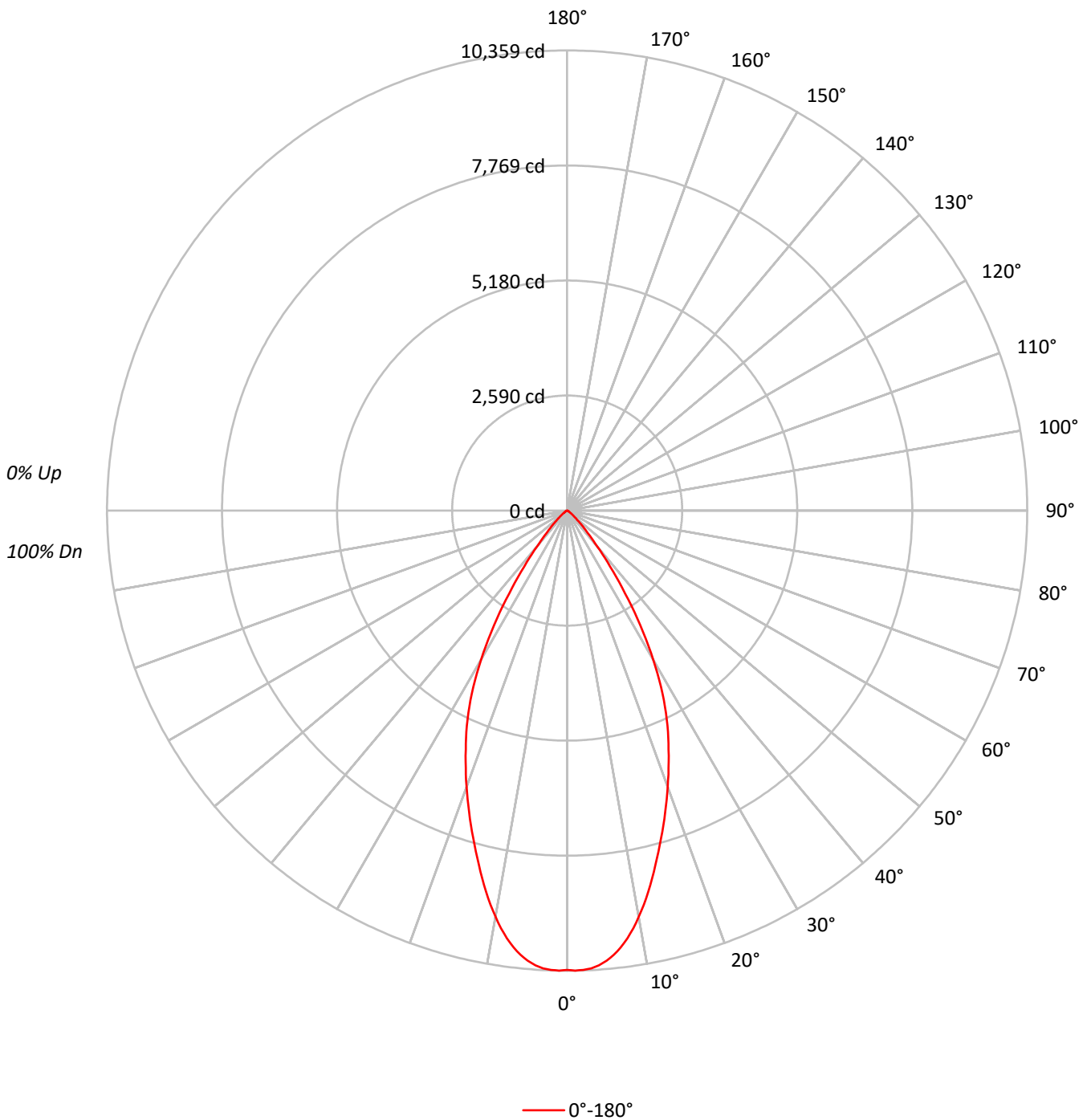
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	318814
5°	314896
10°	290823
15°	253589
20°	217224
25°	181832
30°	138332
35°	85753
40°	42307
45°	20134
50°	9791
55°	4801
60°	2991
65°	2050
70°	1154
75°	917
80°	906
85°	920



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	942.8	12.5
10°-20°	2213.4	29.4
20°-30°	2419.1	32.1
30°-40°	1439.6	19.1
40°-50°	394.9	5.2
50°-60°	89.5	1.2
60°-70°	27.7	0.4
70°-80°	8.4	0.1
80°-90°	2.8	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°	5575.3	74.0
0°-40°	7014.9	93.1
0°-60°	7499.2	99.5
0°-90°	7538.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7538.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10339	
5°	10173	943
15°	7944	2213
25°	5344	2419
35°	2278	1440
45°	462	395
55°	89	89
65°	28	28
75°	8	8
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	10338.9
1°	10359.3
2°	10346.5
3°	10321.0
4°	10262.3
5°	10173.0
6°	10058.3
7°	9905.2
8°	9726.6
9°	9520.0
10°	9287.9
11°	9040.4
12°	8775.1
13°	8502.2
14°	8219.0
15°	7943.5
16°	7673.2
17°	7407.9
18°	7142.6
19°	6877.3
20°	6619.6
22.5°	5971.7
25°	5344.2
27.5°	4652.9
30°	3885.0
32.5°	3061.1
35°	2278.0
37.5°	1584.1
40°	1051.0
42.5°	688.7
45°	461.7
47.5°	306.1
50°	204.1
52.5°	125.0
55°	89.3
57.5°	63.8
60°	48.5
62.5°	35.7
65°	28.1
67.5°	17.9
70°	12.8
72.5°	10.2
75°	7.7
77.5°	5.1
80°	5.1



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CANDELA DISTRIBUTION (continued):

	0°
82.5°	2.6
85°	2.6
87.5°	2.6
90°	0.0

(END OF REPORT)