

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: P247652

Luminaire Tested: **LSR8B100D010 EC8B100935 8LBS0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247652
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-87)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B100935 8LBS0B
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8617.0 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.23
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

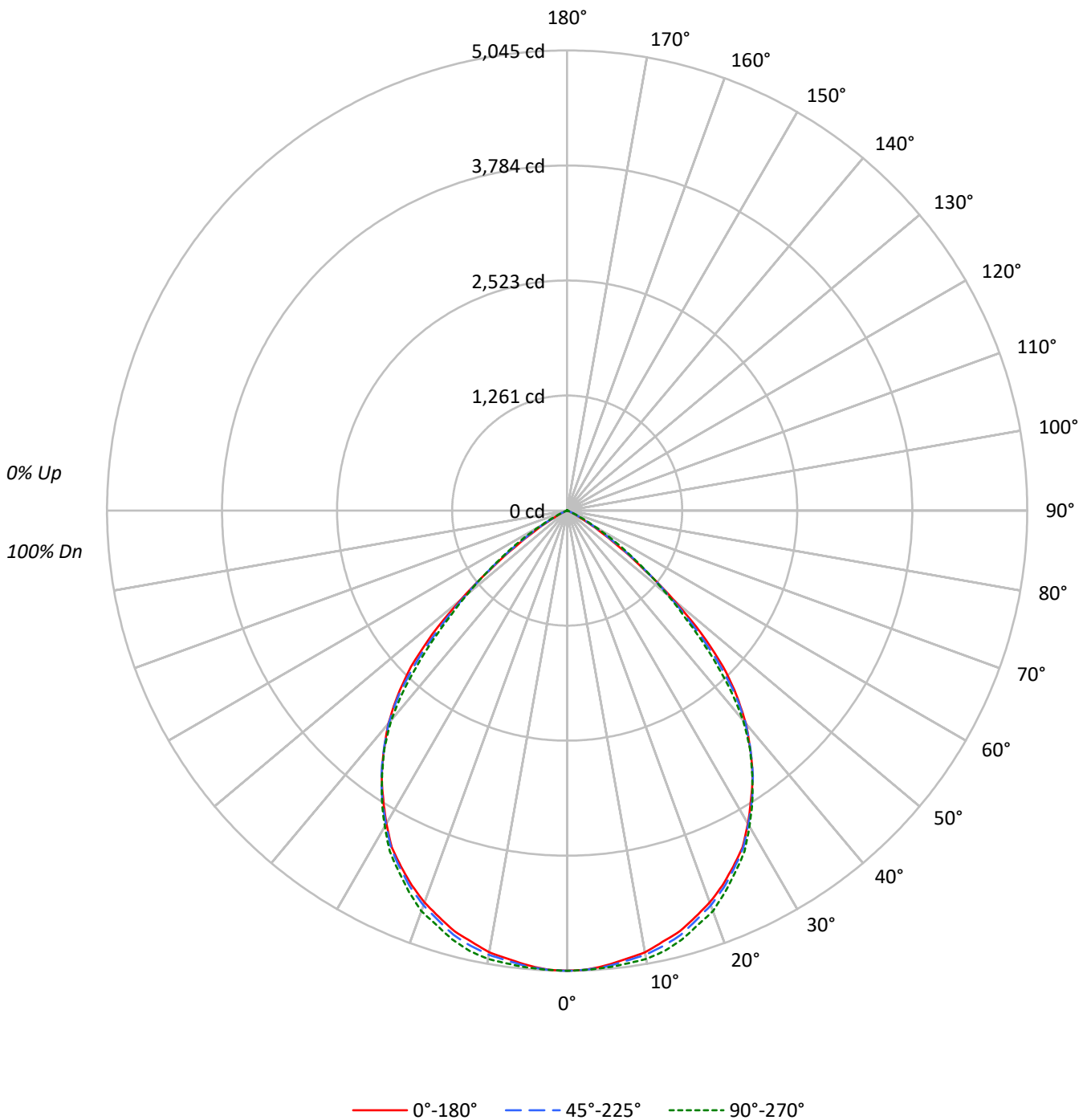
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82					82			
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73					73			
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65					65			
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59					59			
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44					44			
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	40					40			
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	155582	155582	155582
5°	154873	155284	155662
10°	153992	154825	156281
15°	152438	153746	155410
20°	150002	151095	153313
25°	146518	147307	148628
30°	141099	141455	142363
35°	133449	133656	133114
40°	122626	122493	120798
45°	105447	101147	96507
50°	73307	70702	68735
55°	38246	41584	44025
60°	15517	18317	21252
65°	4932	6063	6472
70°	703	397	198
75°	0	0	0
80°	1776	391	586
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	476.5	5.5
10°-20°	1355.9	15.7
20°-30°	1991.9	23.1
30°-40°	2205.3	25.6
40°-50°	1757.5	20.4
50°-60°	720.1	8.4
60°-70°	106.0	1.2
70°-80°	1.5	0.0
80°-90°	2.1	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°	3824.3	44.4
0°-40°	6029.6	70.0
0°-60°	8507.3	98.7
0°-90°	8617.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8617.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5045	5045	5045	5045	5045	
5°	5003	5012	5017	5024	5029	475
15°	4775	4778	4816	4862	4868	1344
25°	4306	4302	4330	4355	4368	1980
35°	3545	3540	3550	3546	3536	2203
45°	2418	2396	2319	2233	2213	1815
55°	711	736	774	818	819	684
65°	68	71	83	91	89	90
75°	0	0	0	0	0	3
85°	0	0	0	4	0	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5045.4	5045.4	5045.4	5045.4	5045.4
2.5°	5036.5	5037.7	5037.7	5032.1	5038.8
5°	5003.3	5012.2	5016.6	5024.4	5028.8
7.5°	4956.8	4954.5	4977.8	5005.5	5008.8
10°	4918.0	4913.5	4944.6	4981.1	4991.1
12.5°	4841.5	4847.1	4886.9	4924.6	4944.6
15°	4775.0	4778.3	4816.0	4861.5	4868.1
17.5°	4672.0	4681.9	4707.4	4755.1	4763.9
20°	4571.1	4575.6	4604.4	4643.2	4672.0
22.5°	4448.1	4455.9	4478.0	4512.4	4526.8
25°	4306.3	4301.8	4329.5	4355.0	4368.3
27.5°	4162.2	4154.5	4175.5	4199.9	4212.1
30°	3962.7	3960.5	3972.7	3988.2	3998.2
32.5°	3753.3	3758.8	3771.0	3775.5	3778.8
35°	3545.0	3540.5	3550.5	3546.1	3536.1
37.5°	3297.9	3301.2	3301.2	3296.7	3292.3
40°	3046.3	3049.6	3043.0	3018.6	3000.9
42.5°	2751.5	2753.8	2719.4	2665.1	2628.5
45°	2418.0	2395.8	2319.4	2232.9	2213.0
47.5°	1998.0	1960.3	1880.5	1815.2	1791.9
50°	1528.1	1500.4	1473.8	1439.5	1432.8
52.5°	1071.6	1086.0	1096.0	1107.0	1103.7
55°	711.4	735.8	773.5	817.8	818.9
57.5°	427.7	455.4	503.1	551.9	575.1
60°	251.6	262.6	297.0	333.6	344.6
62.5°	136.3	139.6	155.1	191.7	186.2
65°	67.6	70.9	83.1	90.9	88.7
67.5°	33.2	36.6	38.8	49.9	41.0
70°	7.8	2.2	4.4	5.5	2.2
72.5°	0.0	0.0	2.2	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	2.2	0.0	0.0	0.0	4.4
80°	10.0	6.6	2.2	2.2	3.3
82.5°	3.3	1.1	3.3	1.1	0.0
85°	0.0	0.0	0.0	4.4	0.0
87.5°	5.5	1.1	1.1	3.3	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)