

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: P247476

Luminaire Tested: **LSR8B100D010 EC8B1009730 8LBS0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247476
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-85)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B1009730 8LBS0WH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8933.0 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.24
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

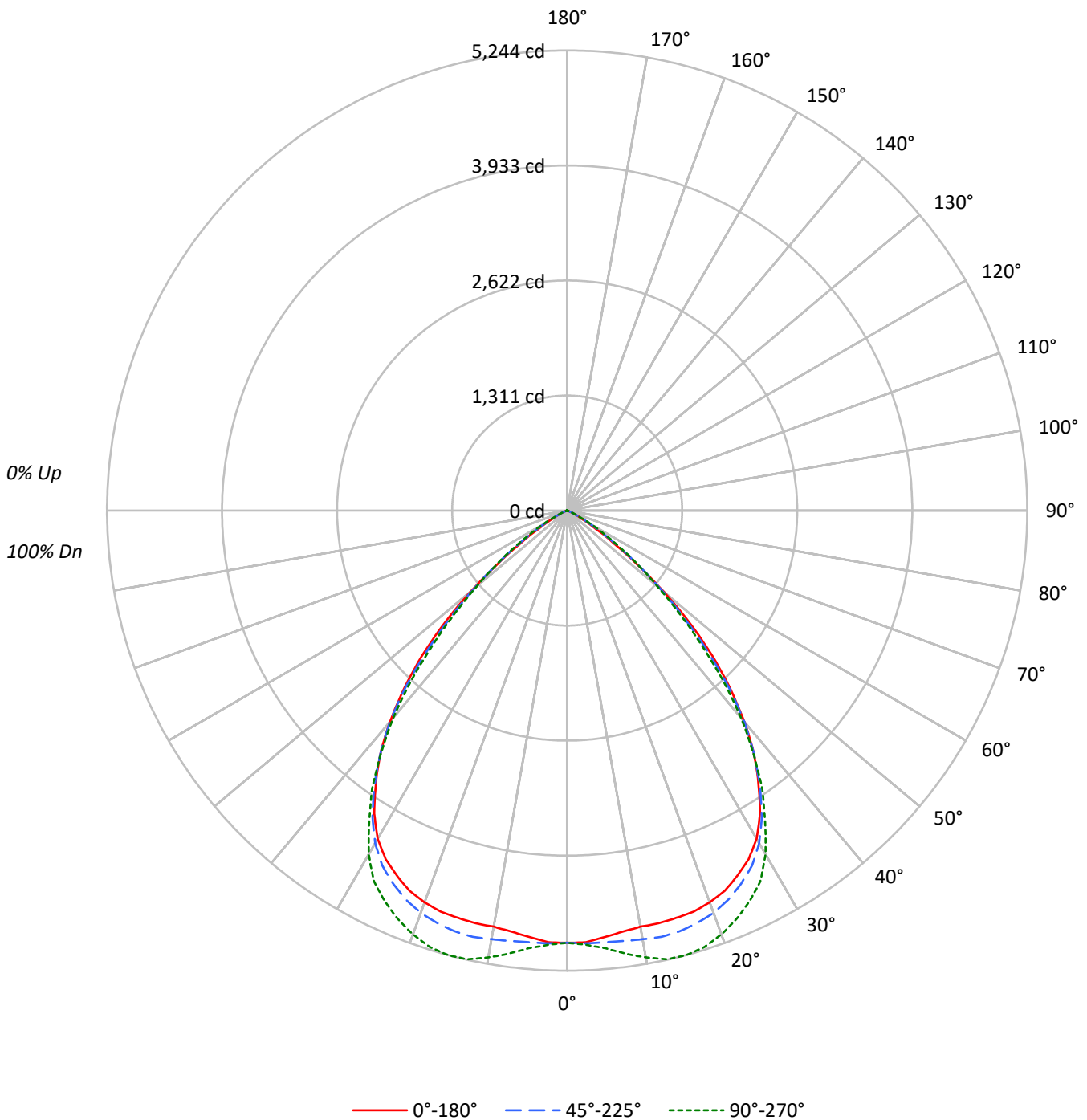
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91						
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82						
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73						
4	92	83	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	66						
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59						
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54						
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49						
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44						
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40						
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37						

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	472.9	5.3
10°-20°	1409.4	15.8
20°-30°	2168.9	24.3
30°-40°	2375.5	26.6
40°-50°	1727.2	19.3
50°-60°	664.4	7.4
60°-70°	104.1	1.2
70°-80°	7.5	0.1
80°-90°	3.0	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°	4051.3	45.4
0°-40°	6426.8	71.9
0°-60°	8818.4	98.7
0°-90°	8933.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8933.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4925	4925	4925	4925	4925	
5°	4879	4904	4938	4984	5006	464
15°	4805	4843	4962	5146	5244	1360
25°	4590	4618	4692	4830	4914	2111
35°	3802	3802	3827	3851	3875	2361
45°	2337	2313	2250	2192	2162	1776
55°	646	663	702	725	745	631
65°	73	76	78	88	91	89
75°	6	12	10	12	12	7
85°	2	0	0	0	2	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4925.1	4925.1	4925.1	4925.1	4925.1
2.5°	4924.1	4931.8	4936.6	4947.1	4951.9
5°	4879.1	4904.0	4937.5	4984.4	5006.5
7.5°	4839.9	4874.4	4946.2	5047.6	5092.6
10°	4815.0	4852.3	4959.6	5097.4	5170.2
12.5°	4817.9	4859.0	4974.9	5140.5	5238.1
15°	4805.4	4842.8	4962.4	5146.2	5243.9
17.5°	4791.1	4821.7	4928.0	5107.9	5213.2
20°	4750.9	4776.7	4878.2	5040.9	5138.6
22.5°	4690.6	4714.5	4798.7	4950.0	5040.0
25°	4590.1	4617.8	4691.5	4830.3	4913.6
27.5°	4478.1	4494.3	4562.3	4688.7	4768.1
30°	4319.2	4324.9	4375.6	4473.3	4521.1
32.5°	4092.3	4091.3	4129.6	4178.4	4196.6
35°	3802.2	3802.2	3827.1	3851.1	3875.0
37.5°	3500.7	3496.9	3499.7	3505.5	3485.4
40°	3142.7	3135.0	3138.9	3104.4	3082.4
42.5°	2750.2	2756.9	2718.6	2657.3	2634.4
45°	2336.7	2312.7	2249.6	2192.1	2162.4
47.5°	1897.3	1860.0	1799.6	1740.3	1735.5
50°	1426.3	1428.2	1389.0	1355.5	1342.1
52.5°	989.8	1000.3	1020.4	1024.3	1029.1
55°	646.1	663.4	701.7	724.6	744.7
57.5°	395.3	426.9	459.5	502.6	506.4
60°	230.7	246.0	282.4	314.9	329.3
62.5°	130.2	144.5	152.2	171.3	176.1
65°	72.8	75.6	77.5	88.1	90.9
67.5°	44.0	45.9	47.9	46.9	48.8
70°	3.8	8.6	3.8	4.8	2.9
72.5°	16.3	10.5	11.5	8.6	5.7
75°	5.7	12.4	9.6	12.4	12.4
77.5°	3.8	2.9	4.8	5.7	4.8
80°	1.0	0.0	0.0	0.0	0.0
82.5°	8.6	7.7	4.8	7.7	2.9
85°	1.9	0.0	0.0	0.0	1.9
87.5°	5.7	2.9	2.9	6.7	1.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)