

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: P247188

Luminaire Tested: **LSR8B100D010 EC8B1009730 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247188
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-58)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B1009730 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8074.0 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.06
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

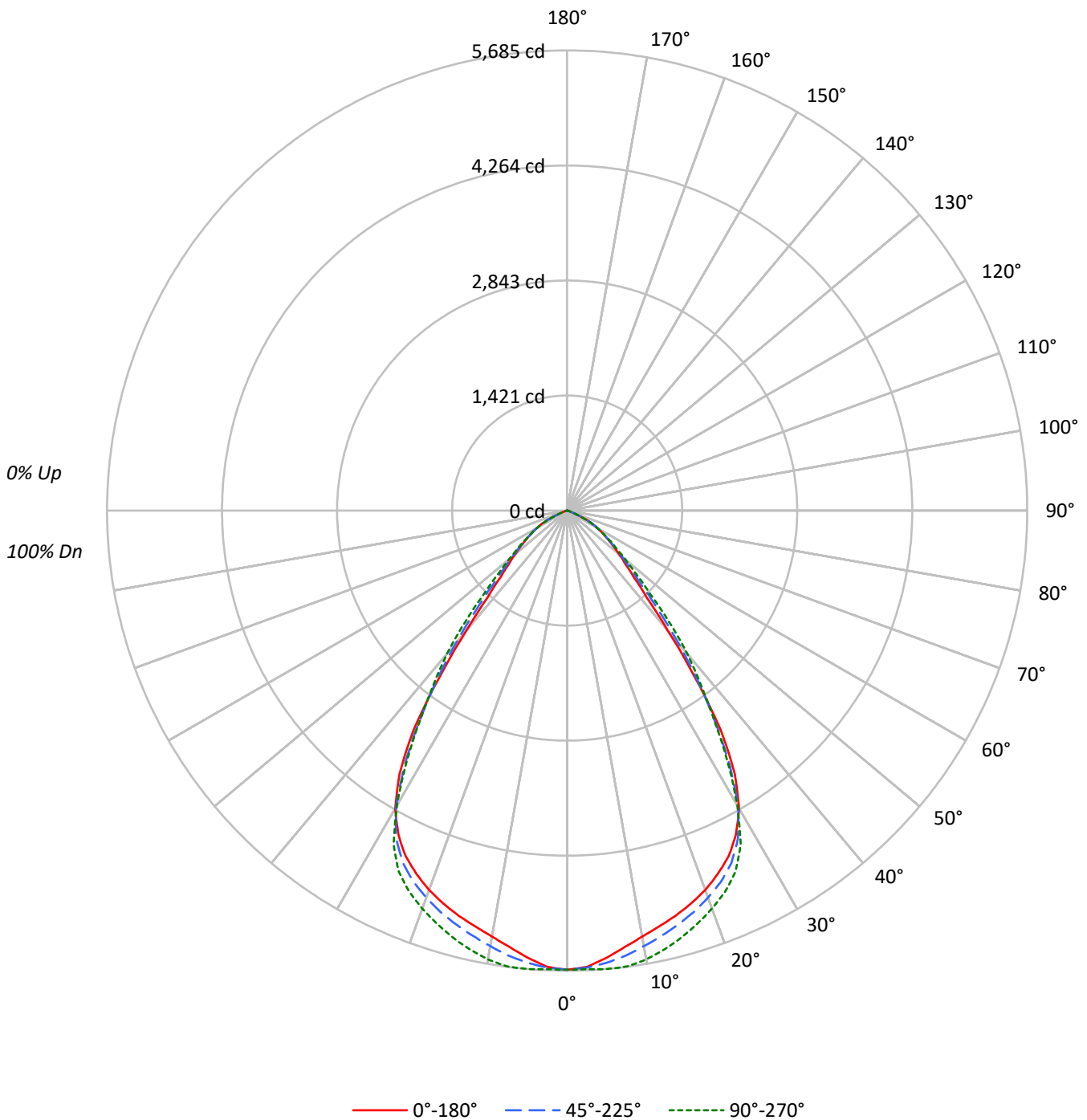
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100	100			
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91	91	91	91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82	82	82	82			
3	99	91	85	81	97	90	84	80	87	82	79	85	81	77	82	79	76	74	74	74	74			
4	93	84	77	72	91	82	76	72	80	75	71	78	74	70	76	72	69	67	67	67	67			
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61	61	61	61			
6	81	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	57	56	56	56	56			
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51	51	51	51			
8	72	61	54	49	71	60	54	49	59	53	49	58	53	49	57	52	49	47	47	47	47			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43	43	43	43			
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40	40	40	40			

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°	531.3	6.6
10°-20°	1497.1	18.5
20°-30°	2189.5	27.1
30°-40°	1984.0	24.6
40°-50°	1054.9	13.1
50°-60°	563.0	7.0
60°-70°	229.6	2.8
70°-80°	23.2	0.3
80°-90°	1.4	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°	4218.0	52.2
0°-40°	6201.9	76.8
0°-60°	7819.9	96.9
0°-90°	8074.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8074.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5672	5672	5672	5672	5672	
5°	5547	5561	5607	5658	5685	523
15°	5181	5211	5295	5404	5460	1462
25°	4716	4736	4801	4884	4922	2155
35°	3306	3260	3192	3168	3174	1987
45°	1166	1200	1300	1404	1441	954
55°	608	607	618	627	638	551
65°	237	236	231	217	218	237
75°	17	17	16	15	15	25
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5672.4	5672.4	5672.4	5672.4	5672.4
2.5°	5641.7	5640.8	5651.3	5663.7	5670.4
5°	5546.9	5561.3	5607.3	5658.0	5684.8
7.5°	5439.7	5466.5	5546.0	5633.1	5680.0
10°	5343.0	5377.5	5464.6	5578.5	5630.2
12.5°	5259.7	5293.2	5381.3	5498.1	5554.6
15°	5181.2	5210.9	5295.2	5404.3	5459.8
17.5°	5090.3	5119.0	5200.4	5303.8	5351.6
20°	4987.8	5011.8	5088.4	5185.1	5233.9
22.5°	4860.5	4886.4	4963.9	5052.9	5098.9
25°	4716.0	4736.1	4801.2	4883.5	4921.8
27.5°	4514.9	4533.1	4571.4	4615.4	4644.1
30°	4248.8	4244.0	4229.6	4216.2	4203.8
32.5°	3856.2	3810.3	3740.4	3696.4	3698.3
35°	3305.8	3259.8	3191.8	3167.9	3173.6
37.5°	2583.0	2617.4	2645.2	2691.1	2713.2
40°	1935.8	1995.1	2135.9	2258.4	2309.1
42.5°	1455.2	1513.6	1661.0	1790.3	1860.1
45°	1166.1	1200.5	1300.1	1403.5	1440.8
47.5°	976.5	991.8	1049.3	1115.3	1147.9
50°	835.8	845.3	876.0	912.4	933.4
52.5°	716.1	719.9	735.3	756.3	769.7
55°	607.9	607.0	618.5	627.1	637.6
57.5°	514.1	513.1	513.1	516.0	522.7
60°	433.7	430.8	430.8	427.0	428.9
62.5°	353.3	350.4	343.7	338.9	337.0
65°	237.4	236.5	230.7	217.3	218.3
67.5°	123.5	122.5	116.8	113.0	111.1
70°	66.1	64.1	61.3	58.4	56.5
72.5°	33.5	32.6	31.6	29.7	29.7
75°	17.2	17.2	16.3	15.3	15.3
77.5°	8.6	8.6	7.7	7.7	7.7
80°	4.8	4.8	3.8	3.8	3.8
82.5°	1.9	1.9	1.9	1.9	1.9
85°	1.0	1.0	1.0	1.0	1.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)