

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: P247236

Luminaire Tested: **LSR8B100D010 EC8B1009730 8LBS0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247236
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-83)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B1009730 8LBS0H
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 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: 8767.0 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.23
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

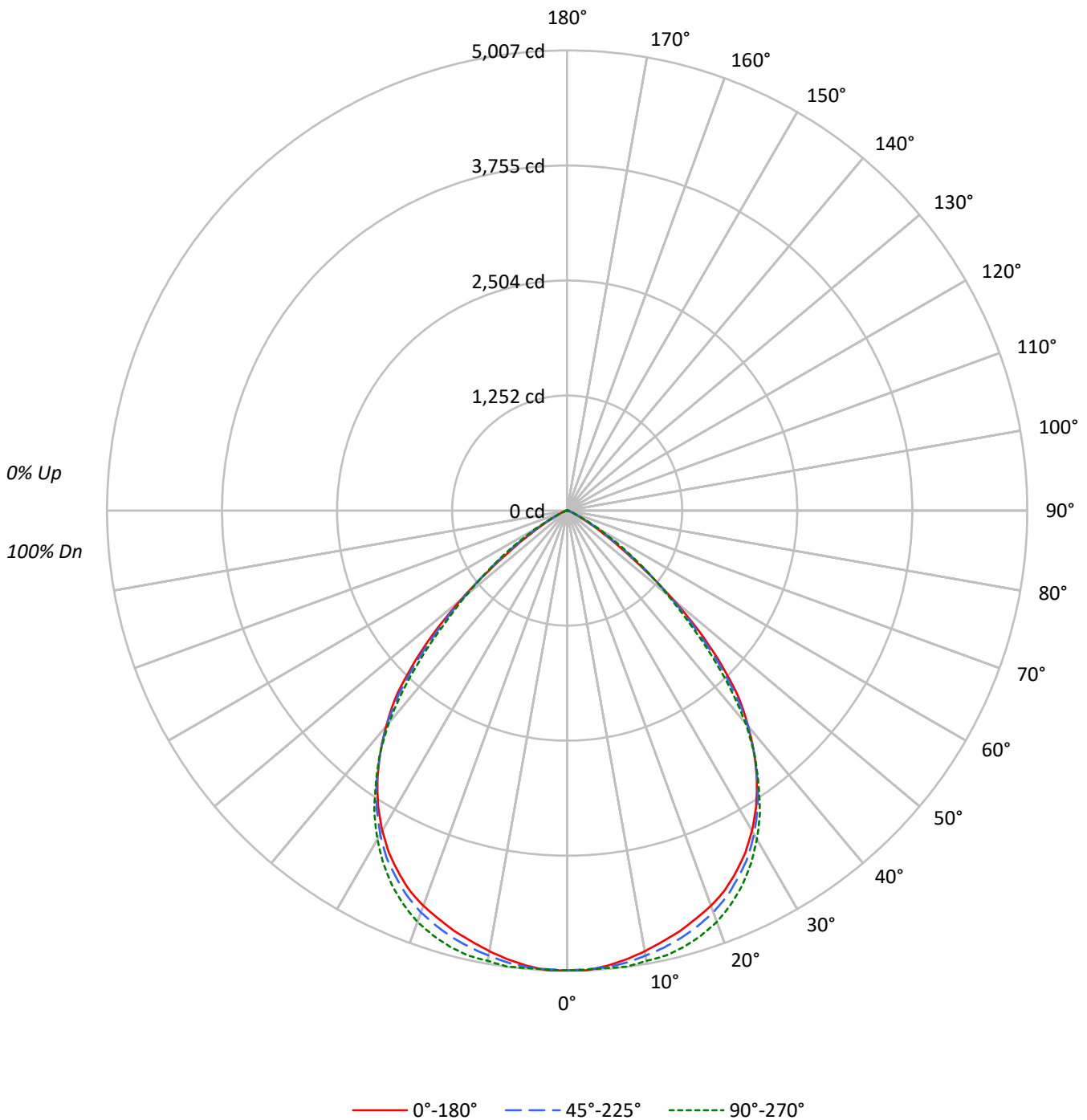
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100				
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91	91	91				
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81	81	81				
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73	73	73				
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65	65	65				
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58	58	58				
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53	53	53				
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48	48	48				
8	70	58	51	46	68	57	51	46	56	50	45	55	49	45	54	49	45	43	43	43				
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40	40	40				
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36	36	36				

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°	474.0	5.4
10°-20°	1359.2	15.5
20°-30°	2028.0	23.1
30°-40°	2246.0	25.6
40°-50°	1751.6	20.0
50°-60°	734.2	8.4
60°-70°	147.1	1.7
70°-80°	23.4	0.3
80°-90°	3.7	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°	3861.1	44.0
0°-40°	6107.2	69.7
0°-60°	8592.9	98.0
0°-90°	8767.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8767.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5003	5003	5003	5003	5003	
5°	4972	4975	4986	4999	4996	471
15°	4737	4758	4812	4882	4915	1336
25°	4344	4362	4405	4473	4502	1996
35°	3599	3593	3615	3632	3628	2237
45°	2379	2368	2307	2236	2208	1800
55°	717	745	793	824	840	699
65°	112	112	113	122	118	135
75°	33	30	30	23	21	26
85°	1	2	1	0	5	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5003.1	5003.1	5003.1	5003.1	5003.1
2.5°	5007.0	4997.4	4995.5	5001.2	4997.4
5°	4971.6	4975.4	4985.9	4999.3	4996.4
7.5°	4925.6	4932.3	4961.0	4995.5	5004.1
10°	4868.2	4882.5	4917.0	4956.2	4974.4
12.5°	4801.1	4820.3	4870.1	4926.6	4960.1
15°	4737.0	4758.1	4811.7	4882.5	4915.1
17.5°	4656.6	4684.3	4737.0	4813.6	4847.1
20°	4576.2	4601.1	4651.8	4726.5	4763.8
22.5°	4476.6	4494.8	4542.7	4605.8	4644.1
25°	4344.5	4361.7	4404.8	4472.8	4502.4
27.5°	4197.0	4217.2	4256.4	4303.3	4330.1
30°	4022.8	4039.1	4066.8	4109.0	4129.1
32.5°	3826.6	3827.5	3855.3	3886.9	3905.1
35°	3598.7	3593.0	3615.0	3632.2	3628.4
37.5°	3346.9	3347.9	3346.0	3347.9	3351.7
40°	3065.5	3052.1	3062.6	3038.6	3021.4
42.5°	2766.8	2753.4	2712.2	2659.5	2630.8
45°	2379.0	2368.5	2307.2	2236.4	2207.7
47.5°	1953.0	1920.5	1870.7	1810.4	1782.6
50°	1502.1	1498.3	1468.6	1454.2	1429.3
52.5°	1074.2	1074.2	1110.5	1104.8	1103.8
55°	717.1	744.8	792.7	824.3	839.6
57.5°	467.2	493.0	533.2	566.8	582.1
60°	302.5	315.0	343.7	369.5	387.7
62.5°	187.6	198.2	213.5	229.8	236.5
65°	112.0	112.0	113.0	121.6	117.8
67.5°	75.6	78.5	74.7	74.7	84.2
70°	48.8	46.0	45.0	44.0	44.0
72.5°	31.6	26.8	28.7	30.6	26.8
75°	32.6	29.7	29.7	23.0	21.1
77.5°	11.5	12.4	8.6	6.7	5.7
80°	1.0	3.8	3.8	1.0	0.0
82.5°	11.5	10.5	8.6	13.4	8.6
85°	1.0	1.9	1.0	0.0	4.8
87.5°	0.0	0.0	0.0	1.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)