

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: P247237

Luminaire Tested: **LSR8B120D010 EC8B120930 8LBS0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247237
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: LSR8B120D010 EC8B120930 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: 11140.5 lumens
Efficiency: N/A
Efficacy: 94.2 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

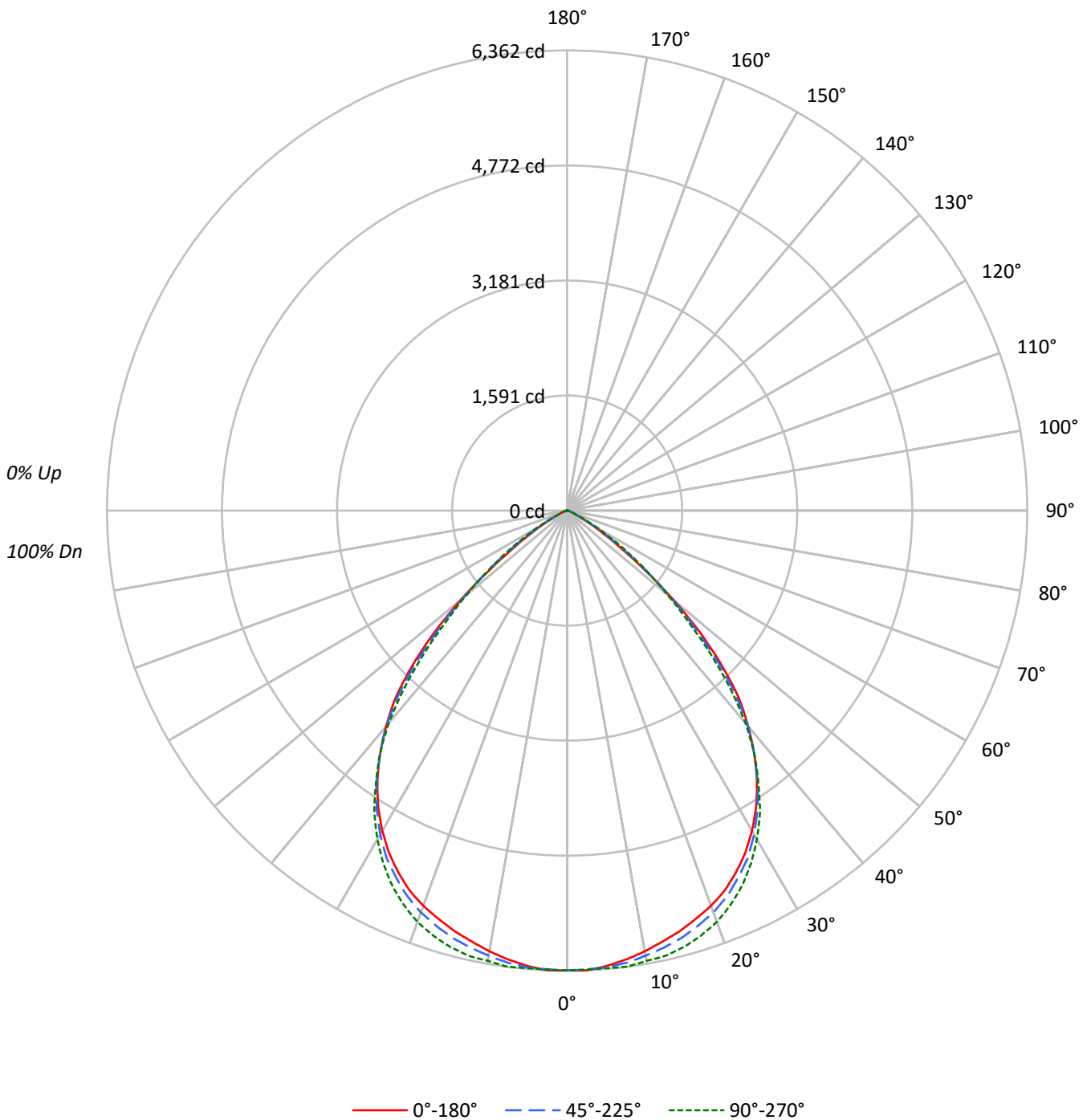
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100		
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91	91	91	91	91		
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81	81	81	81	81		
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73	73	73	73	73		
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65	65	65	65	65		
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58	58	58	58	58		
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53	53	53	53	53		
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48	48	48	48	48		
8	70	58	51	46	68	57	51	46	56	50	45	55	49	45	54	49	45	43	43	43	43	43		
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40	40	40	40	40		
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36	36	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°	602.3	5.4
10°-20°	1727.1	15.5
20°-30°	2577.0	23.1
30°-40°	2854.1	25.6
40°-50°	2225.8	20.0
50°-60°	932.9	8.4
60°-70°	186.9	1.7
70°-80°	29.7	0.3
80°-90°	4.6	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°	4906.4	44.0
0°-40°	7760.5	69.7
0°-60°	10919.2	98.0
0°-90°	11140.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11140.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6358	6358	6358	6358	6358	
5°	6318	6322	6336	6353	6349	599
15°	6019	6046	6114	6204	6246	1698
25°	5521	5543	5597	5684	5721	2537
35°	4573	4566	4594	4616	4611	2842
45°	3023	3010	2932	2842	2805	2287
55°	911	946	1007	1048	1067	888
65°	142	142	144	154	150	172
75°	41	38	38	29	27	34
85°	1	2	1	0	6	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6357.6	6357.6	6357.6	6357.6	6357.6
2.5°	6362.5	6350.4	6347.9	6355.2	6350.4
5°	6317.5	6322.3	6335.8	6352.8	6349.1
7.5°	6259.1	6267.6	6304.2	6347.9	6358.9
10°	6186.1	6204.4	6248.1	6298.0	6321.2
12.5°	6100.9	6125.3	6188.6	6260.3	6302.9
15°	6019.4	6046.2	6114.4	6204.4	6245.8
17.5°	5917.3	5952.5	6019.4	6116.7	6159.3
20°	5815.1	5846.7	5911.1	6006.1	6053.5
22.5°	5688.5	5711.7	5772.5	5852.7	5901.4
25°	5520.7	5542.6	5597.3	5683.7	5721.4
27.5°	5333.3	5358.8	5408.7	5468.4	5502.4
30°	5111.9	5132.6	5167.9	5221.4	5247.0
32.5°	4862.6	4863.7	4899.0	4939.1	4962.3
35°	4573.0	4565.7	4593.6	4615.6	4610.7
37.5°	4253.1	4254.2	4251.8	4254.2	4259.1
40°	3895.4	3878.3	3891.7	3861.3	3839.4
42.5°	3515.8	3498.8	3446.5	3379.6	3343.0
45°	3023.1	3009.8	2931.9	2841.8	2805.3
47.5°	2481.8	2440.4	2377.1	2300.5	2265.2
50°	1908.7	1903.9	1866.1	1848.0	1816.2
52.5°	1364.9	1364.9	1411.2	1403.9	1402.7
55°	911.1	946.5	1007.3	1047.5	1066.9
57.5°	593.7	626.5	677.6	720.2	739.6
60°	384.4	400.2	436.7	469.6	492.7
62.5°	238.4	251.8	271.3	292.0	300.5
65°	142.4	142.4	143.6	154.5	149.7
67.5°	96.1	99.8	94.8	94.8	107.1
70°	62.0	58.4	57.2	55.9	55.9
72.5°	40.1	34.1	36.5	38.9	34.1
75°	41.4	37.7	37.7	29.1	26.8
77.5°	14.6	15.8	11.0	8.5	7.3
80°	1.2	4.8	4.8	1.2	0.0
82.5°	14.6	13.3	11.0	17.0	11.0
85°	1.2	2.5	1.2	0.0	6.1
87.5°	0.0	0.0	0.0	1.2	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)