

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: P247669

Luminaire Tested: **LSR8B120D010 EC8B1209730 8LBS0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247669
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: LSR8B120D010 EC8B1209730 8LBS0B
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8438.0 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.23
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

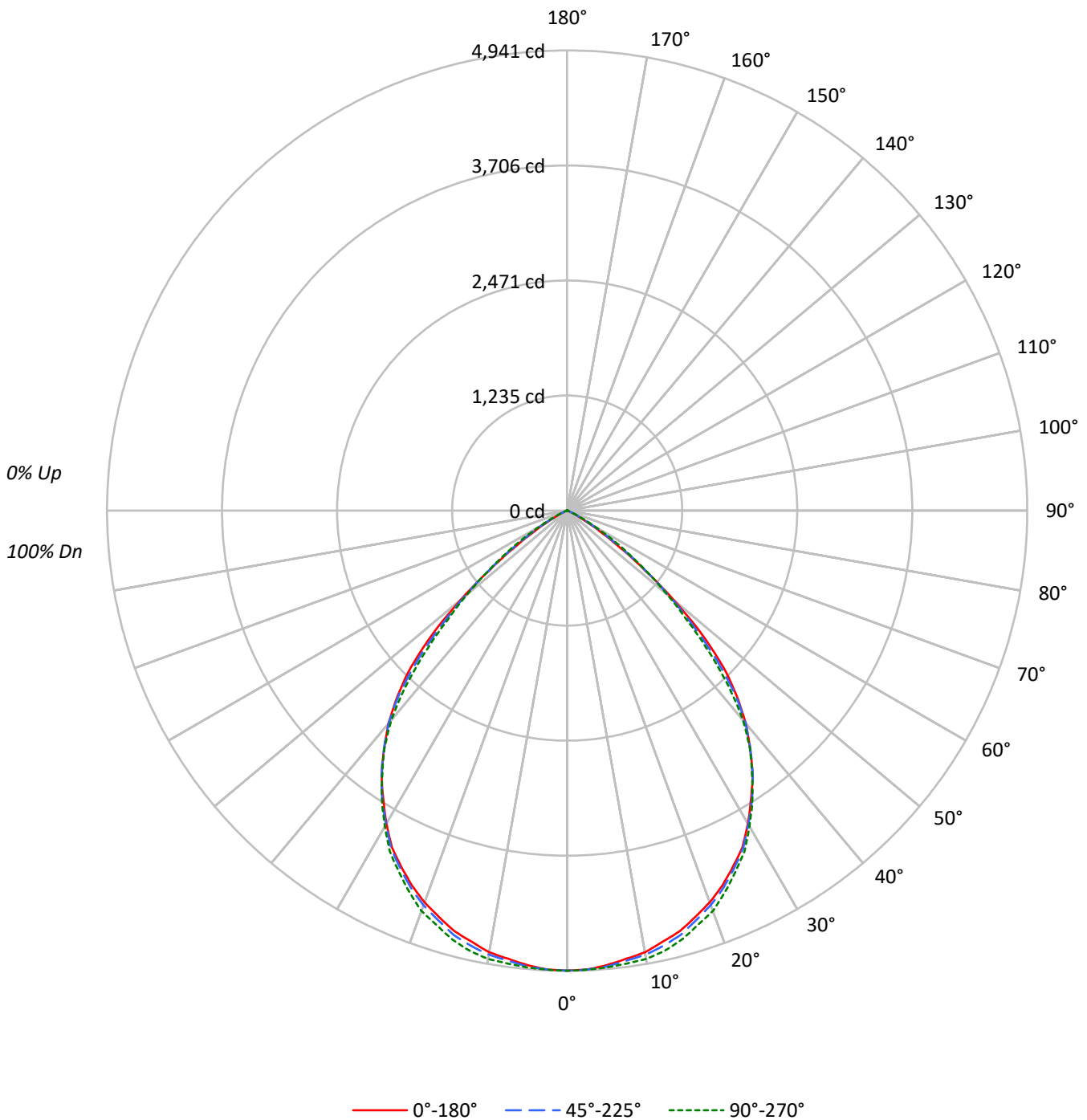
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	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°	466.6	5.5
10°-20°	1327.8	15.7
20°-30°	1950.5	23.1
30°-40°	2159.5	25.6
40°-50°	1721.0	20.4
50°-60°	705.2	8.4
60°-70°	103.8	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°	3744.9	44.4
0°-40°	5904.4	70.0
0°-60°	8330.6	98.7
0°-90°	8438.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8438.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4941	4941	4941	4941	4941	
5°	4899	4908	4912	4920	4924	465
15°	4676	4679	4716	4760	4767	1316
25°	4217	4212	4240	4265	4278	1939
35°	3471	3467	3477	3472	3463	2158
45°	2368	2346	2271	2186	2167	1777
55°	697	720	757	801	802	670
65°	66	69	81	89	87	88
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°	4940.6	4940.6	4940.6	4940.6	4940.6
2.5°	4931.9	4933.0	4933.0	4927.6	4934.1
5°	4899.4	4908.0	4912.4	4920.0	4924.3
7.5°	4853.8	4851.6	4874.4	4901.5	4904.8
10°	4815.8	4811.5	4841.9	4877.7	4887.4
12.5°	4740.9	4746.4	4785.4	4822.3	4841.9
15°	4675.8	4679.1	4716.0	4760.5	4767.0
17.5°	4574.9	4584.7	4609.6	4656.3	4665.0
20°	4476.2	4480.5	4508.7	4546.7	4574.9
22.5°	4355.7	4363.3	4385.0	4418.7	4432.8
25°	4216.8	4212.5	4239.6	4264.6	4277.6
27.5°	4075.8	4068.2	4088.8	4112.6	4124.6
30°	3880.4	3878.3	3890.2	3905.4	3915.2
32.5°	3675.3	3680.8	3692.7	3697.0	3700.3
35°	3471.3	3467.0	3476.8	3472.4	3462.7
37.5°	3229.3	3232.6	3232.6	3228.3	3223.9
40°	2983.0	2986.3	2979.8	2955.9	2938.5
42.5°	2694.4	2696.6	2662.9	2609.7	2573.9
45°	2367.8	2346.1	2271.2	2186.5	2167.0
47.5°	1956.5	1919.6	1841.5	1777.4	1754.7
50°	1496.4	1469.3	1443.2	1409.6	1403.1
52.5°	1049.3	1063.4	1073.2	1084.0	1080.8
55°	696.7	720.5	757.4	800.8	801.9
57.5°	418.9	446.0	492.6	540.4	563.2
60°	246.3	257.2	290.8	326.6	337.5
62.5°	133.5	136.7	151.9	187.7	182.3
65°	66.2	69.4	81.4	89.0	86.8
67.5°	32.6	35.8	38.0	48.8	40.1
70°	7.6	2.2	4.3	5.4	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	4.3
80°	9.8	6.5	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	4.3	0.0
87.5°	5.4	1.1	1.1	3.3	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)