

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: P247657

Luminaire Tested: **LSR8B120D010 EC8B120940 8LBS0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247657
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 EC8B120940 8LBS0B
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10203.0 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.23
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

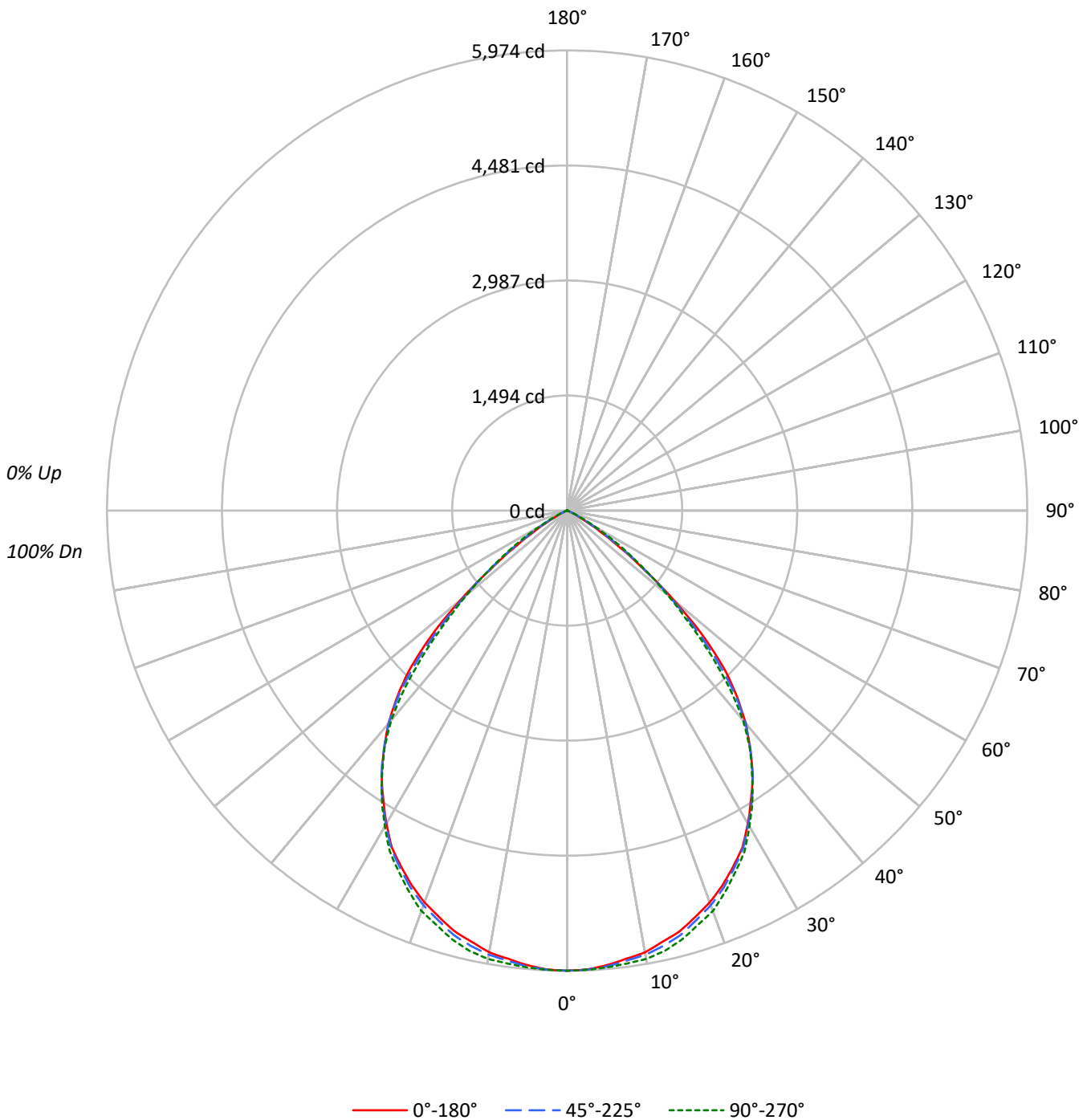
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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			
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82					82			
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73					73			
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65					65			
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59					59			
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44					44			
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	40					40			
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	184216	184216	184216
5°	183378	183864	184313
10°	182333	183319	185045
15°	180496	182044	184014
20°	177613	178903	181531
25°	173486	174421	175983
30°	167070	167490	168566
35°	158008	158256	157612
40°	145196	145039	143030
45°	124853	119759	114269
50°	86802	83717	81391
55°	45289	49240	52127
60°	18366	21684	25169
65°	5837	7180	7661
70°	829	469	234
75°	0	0	0
80°	2095	462	693
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	564.2	5.5
10°-20°	1605.5	15.7
20°-30°	2358.5	23.1
30°-40°	2611.2	25.6
40°-50°	2081.0	20.4
50°-60°	852.7	8.4
60°-70°	125.5	1.2
70°-80°	1.8	0.0
80°-90°	2.5	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°	4528.2	44.4
0°-40°	7139.4	70.0
0°-60°	10073.1	98.7
0°-90°	10203.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10203.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5974	5974	5974	5974	5974	
5°	5924	5935	5940	5949	5954	562
15°	5654	5658	5702	5756	5764	1591
25°	5099	5094	5126	5157	5172	2345
35°	4197	4192	4204	4199	4187	2609
45°	2863	2837	2746	2644	2620	2149
55°	842	871	916	968	970	810
65°	80	84	98	108	105	106
75°	0	0	0	0	0	3
85°	0	0	0	5	0	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5974.0	5974.0	5974.0	5974.0	5974.0
2.5°	5963.5	5964.9	5964.9	5958.3	5966.2
5°	5924.2	5934.7	5939.9	5949.1	5954.4
7.5°	5869.1	5866.4	5894.0	5926.8	5930.7
10°	5823.1	5817.9	5854.6	5897.9	5909.7
12.5°	5732.6	5739.2	5786.4	5831.0	5854.6
15°	5653.9	5657.8	5702.4	5756.2	5764.1
17.5°	5531.9	5543.7	5573.8	5630.3	5640.8
20°	5412.5	5417.7	5451.8	5497.7	5531.9
22.5°	5266.8	5276.0	5302.2	5342.9	5360.0
25°	5098.9	5093.6	5126.4	5156.6	5172.3
27.5°	4928.3	4919.1	4944.0	4972.9	4987.3
30°	4692.1	4689.5	4703.9	4722.3	4734.1
32.5°	4444.1	4450.7	4465.1	4470.4	4474.3
35°	4197.4	4192.2	4204.0	4198.8	4186.9
37.5°	3904.8	3908.8	3908.8	3903.5	3898.3
40°	3607.0	3610.9	3603.1	3574.2	3553.2
42.5°	3258.0	3260.6	3219.9	3155.6	3112.3
45°	2863.0	2836.8	2746.2	2643.9	2620.3
47.5°	2365.7	2321.1	2226.7	2149.2	2121.7
50°	1809.4	1776.6	1745.1	1704.4	1696.6
52.5°	1268.8	1285.9	1297.7	1310.8	1306.9
55°	842.4	871.2	915.9	968.3	969.6
57.5°	506.5	539.3	595.7	653.4	681.0
60°	297.8	311.0	351.6	394.9	408.1
62.5°	161.4	165.3	183.7	227.0	220.4
65°	80.0	84.0	98.4	107.6	105.0
67.5°	39.4	43.3	45.9	59.0	48.5
70°	9.2	2.6	5.2	6.6	2.6
72.5°	0.0	0.0	2.6	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	2.6	0.0	0.0	0.0	5.2
80°	11.8	7.9	2.6	2.6	3.9
82.5°	3.9	1.3	3.9	1.3	0.0
85°	0.0	0.0	0.0	5.2	0.0
87.5°	6.6	1.3	1.3	3.9	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)