

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: P247637

Luminaire Tested: **LSR8B120D010 EC8B120840 8LBS0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247637
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 EC8B120840 8LBS0B
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11380.0 lumens
Efficiency: N/A
Efficacy: 96.2 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

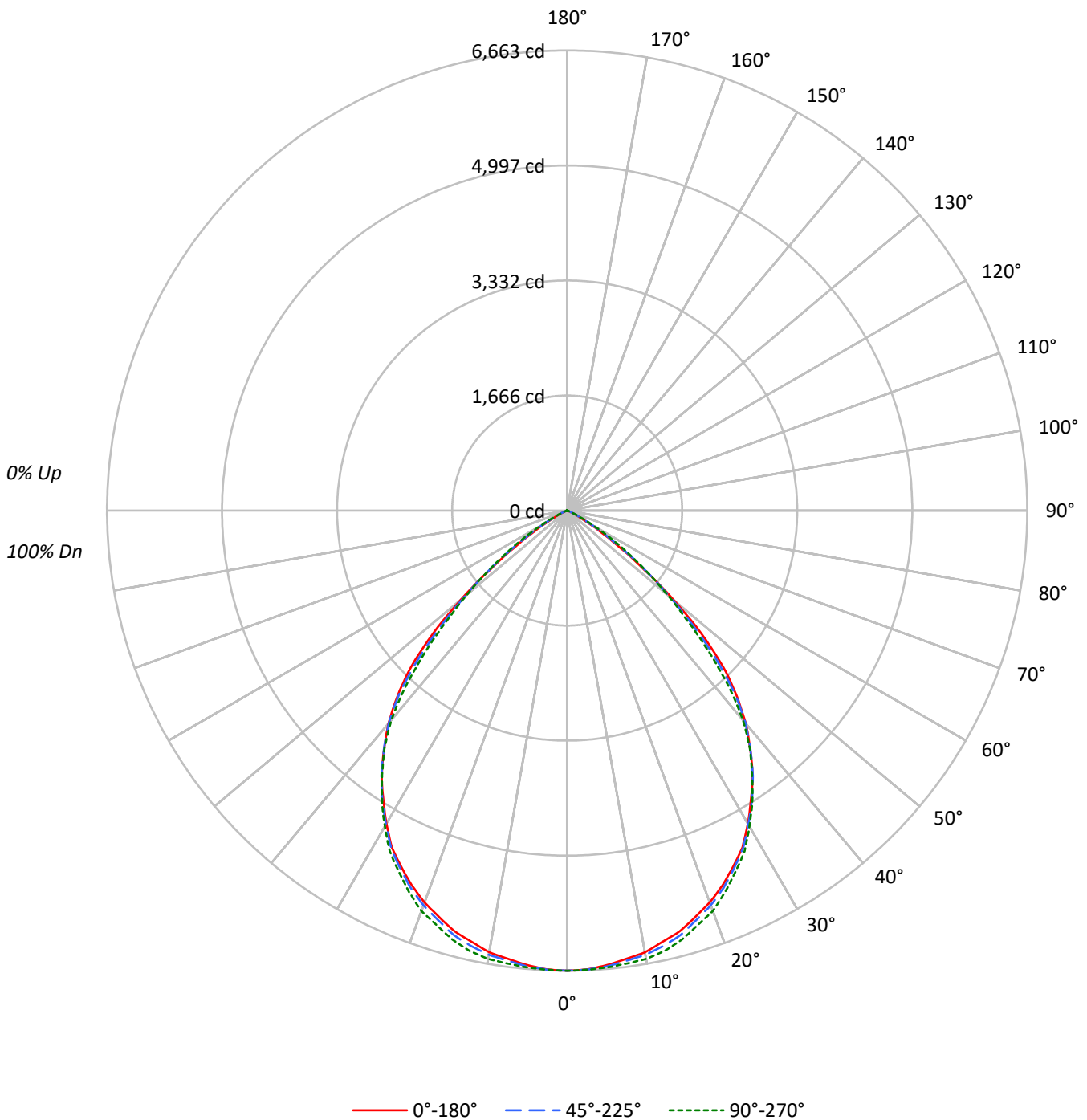
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	205469	205469	205469
5°	204532	205074	205572
10°	203368	204467	206393
15°	201317	203047	205240
20°	198100	199540	202471
25°	193499	194543	196285
30°	186344	186814	188011
35°	176239	176514	175795
40°	161946	161769	159530
45°	139257	133579	127452
50°	96814	93374	90779
55°	50514	54917	58143
60°	20488	24188	28067
65°	6516	8012	8544
70°	920	532	261
75°	0	0	0
80°	2344	515	781
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	629.3	5.5
10°-20°	1790.7	15.7
20°-30°	2630.6	23.1
30°-40°	2912.4	25.6
40°-50°	2321.1	20.4
50°-60°	951.0	8.4
60°-70°	140.0	1.2
70°-80°	2.0	0.0
80°-90°	2.9	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°	5050.6	44.4
0°-40°	7963.0	70.0
0°-60°	11235.1	98.7
0°-90°	11380.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11380.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6663	6663	6663	6663	6663	
5°	6608	6619	6625	6635	6641	627
15°	6306	6310	6360	6420	6429	1775
25°	5687	5681	5718	5752	5769	2615
35°	4682	4676	4689	4683	4670	2910
45°	3193	3164	3063	2949	2923	2396
55°	940	972	1022	1080	1082	904
65°	89	94	110	120	117	118
75°	0	0	0	0	0	4
85°	0	0	0	6	0	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6663.2	6663.2	6663.2	6663.2	6663.2
2.5°	6651.5	6653.0	6653.0	6645.6	6654.4
5°	6607.6	6619.3	6625.1	6635.4	6641.2
7.5°	6546.1	6543.2	6573.9	6610.5	6614.9
10°	6494.9	6489.0	6530.0	6578.3	6591.5
12.5°	6393.9	6401.2	6453.9	6503.7	6530.0
15°	6306.1	6310.5	6360.3	6420.3	6429.0
17.5°	6170.0	6183.2	6216.8	6279.8	6291.5
20°	6036.8	6042.7	6080.7	6132.0	6170.0
22.5°	5874.4	5884.6	5913.9	5959.3	5978.3
25°	5687.1	5681.2	5717.8	5751.5	5769.0
27.5°	5496.8	5486.6	5514.4	5546.6	5562.7
30°	5233.4	5230.5	5246.6	5267.0	5280.2
32.5°	4956.8	4964.1	4980.2	4986.1	4990.4
35°	4681.7	4675.8	4689.0	4683.1	4669.9
37.5°	4355.3	4359.7	4359.7	4353.8	4348.0
40°	4023.1	4027.5	4018.7	3986.5	3963.1
42.5°	3633.8	3636.7	3591.4	3519.7	3471.4
45°	3193.3	3164.0	3063.1	2948.9	2922.6
47.5°	2638.6	2588.9	2483.5	2397.2	2366.4
50°	2018.1	1981.5	1946.4	1901.1	1892.3
52.5°	1415.2	1434.2	1447.4	1462.0	1457.6
55°	939.6	971.7	1021.5	1080.0	1081.5
57.5°	564.9	601.5	664.4	728.8	759.5
60°	332.2	346.8	392.2	440.5	455.1
62.5°	180.0	184.4	204.9	253.2	245.9
65°	89.3	93.7	109.8	120.0	117.1
67.5°	43.9	48.3	51.2	65.9	54.1
70°	10.2	2.9	5.9	7.3	2.9
72.5°	0.0	0.0	2.9	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	2.9	0.0	0.0	0.0	5.9
80°	13.2	8.8	2.9	2.9	4.4
82.5°	4.4	1.5	4.4	1.5	0.0
85°	0.0	0.0	0.0	5.9	0.0
87.5°	7.3	1.5	1.5	4.4	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)