

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: P247672

Luminaire Tested: **LSR8B100D010 EC8B100827 8LBW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247672
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-63)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B100827 8LBW0MW
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10553.0 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.09 / 1.05
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

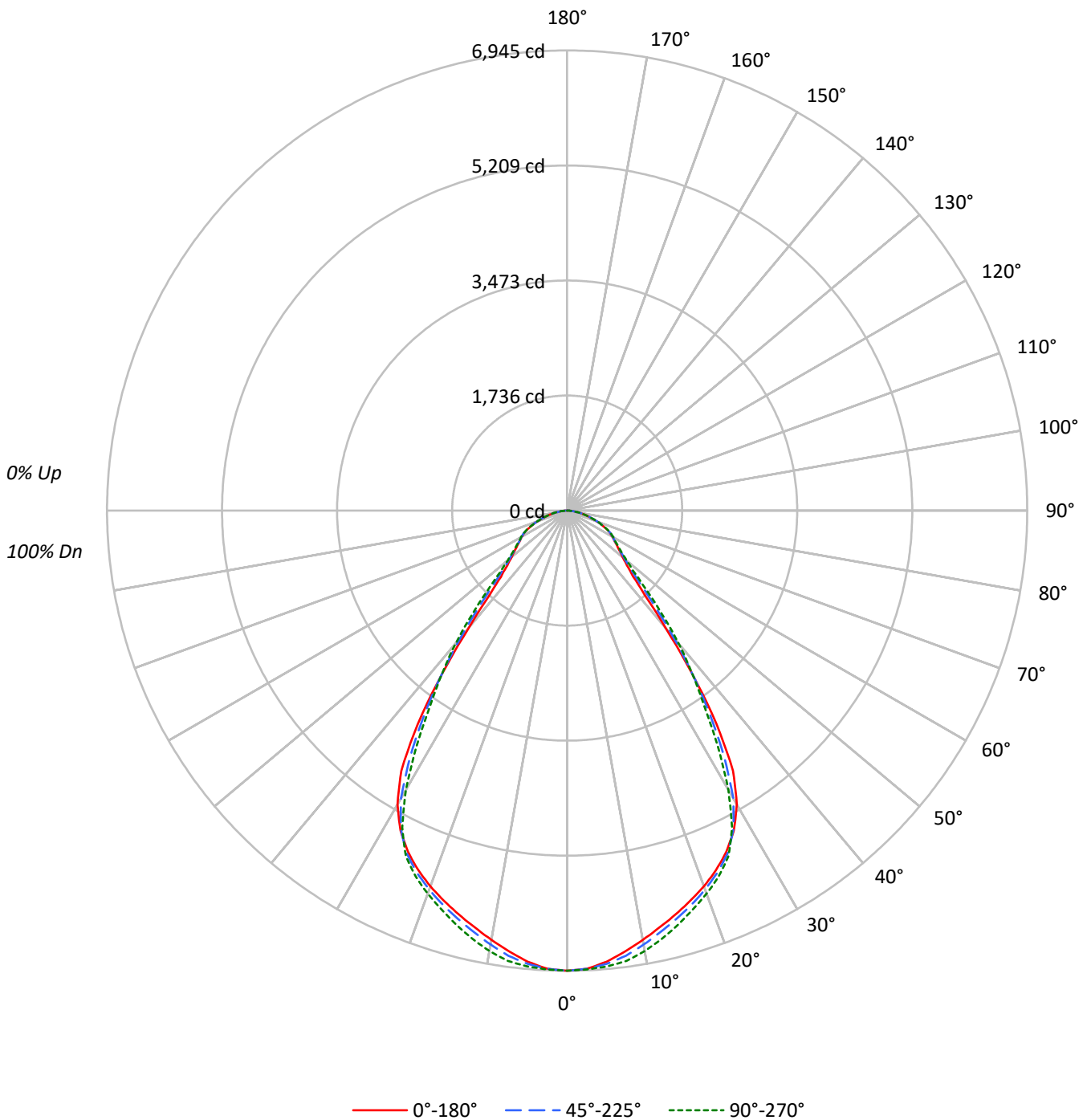
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89					89			
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78					78			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63					63			
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	57					57			
6	79	67	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51					51			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47					47			
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43					43			
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	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°	214146	214146	214146
5°	211531	212549	213757
10°	205999	208288	211340
15°	201499	203641	206559
20°	198044	199724	201923
25°	193393	194594	195880
30°	182331	178422	173170
35°	148013	141361	135944
40°	92560	100462	105320
45°	61676	67472	73215
50°	52583	54161	56032
55°	49159	49815	50536
60°	48721	49024	49474
65°	47507	48040	48390
70°	43087	43421	43745
75°	37625	38054	38209
80°	32035	32035	32905
85°	25899	25899	25899



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	648.9	6.1
10°-20°	1800.4	17.1
20°-30°	2602.8	24.7
30°-40°	2329.4	22.1
40°-50°	1260.6	11.9
50°-60°	840.2	8.0
60°-70°	643.4	6.1
70°-80°	341.0	3.2
80°-90°	86.3	0.8
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°	5052.2	47.9
0°-40°	7381.5	69.9
0°-60°	9482.3	89.9
0°-90°	10553.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10553.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6945	6945	6945	6945	6945	
5°	6834	6837	6867	6893	6906	644
15°	6312	6324	6379	6441	6470	1781
25°	5684	5697	5719	5746	5757	2601
35°	3932	3892	3755	3647	3611	2380
45°	1414	1456	1547	1644	1679	1164
55°	914	918	927	936	940	827
65°	651	654	658	663	663	638
75°	316	316	319	321	321	339
85°	73	73	73	74	73	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6944.6	6944.6	6944.6	6944.6	6944.6
2.5°	6921.5	6919.0	6920.2	6927.5	6931.2
5°	6833.7	6837.3	6866.6	6893.4	6905.6
7.5°	6710.5	6726.4	6776.4	6828.8	6855.6
10°	6578.9	6594.7	6652.0	6726.4	6749.5
12.5°	6443.5	6463.0	6514.2	6589.8	6617.9
15°	6311.8	6324.0	6378.9	6441.1	6470.3
17.5°	6176.5	6188.7	6238.7	6287.5	6310.6
20°	6035.1	6048.5	6086.3	6127.7	6153.3
22.5°	5872.9	5886.3	5918.0	5954.6	5977.8
25°	5684.0	5697.4	5719.3	5746.1	5757.1
27.5°	5445.0	5453.5	5432.8	5410.8	5391.3
30°	5120.7	5093.9	5010.9	4904.9	4863.4
32.5°	4659.8	4573.3	4413.5	4284.3	4236.8
35°	3931.9	3891.7	3755.2	3646.7	3611.3
37.5°	3083.4	3110.2	3100.4	3093.1	3100.4
40°	2299.4	2361.6	2495.7	2587.2	2616.4
42.5°	1741.0	1800.8	1952.0	2078.8	2122.6
45°	1414.3	1455.7	1547.2	1643.5	1678.9
47.5°	1220.4	1243.6	1289.9	1341.1	1358.2
50°	1096.1	1105.8	1129.0	1158.2	1168.0
52.5°	997.3	1002.2	1015.6	1031.5	1033.9
55°	914.4	918.1	926.6	936.4	940.0
57.5°	844.9	848.6	851.0	857.1	859.5
60°	790.0	790.0	794.9	799.8	802.2
62.5°	730.3	730.3	735.2	740.1	740.1
65°	651.1	653.5	658.4	663.2	663.2
67.5°	564.5	565.7	569.4	574.2	573.0
70°	477.9	477.9	481.6	484.0	485.2
72.5°	395.0	393.8	399.9	401.1	397.5
75°	315.8	315.8	319.4	320.7	320.7
77.5°	246.3	245.1	245.1	246.3	247.5
80°	180.4	181.7	180.4	182.9	185.3
82.5°	125.6	124.4	124.4	124.4	123.1
85°	73.2	73.2	73.2	74.4	73.2
87.5°	29.3	29.3	28.0	28.0	26.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)