

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: P247156

Luminaire Tested: **LSR8B100D010 EC8B100840 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247156
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-58)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B100840 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10888.0 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

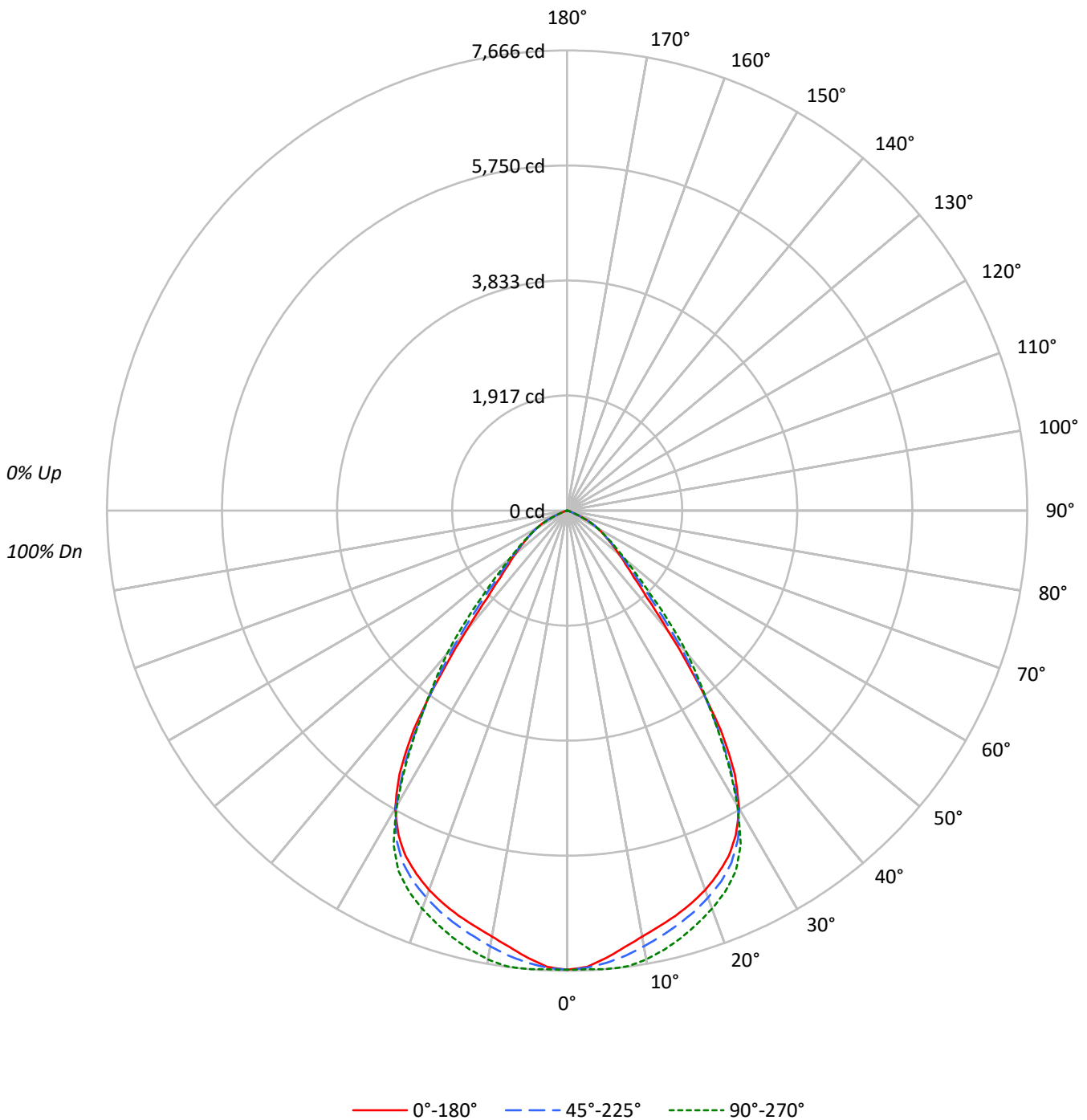
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82					82			
3	99	91	85	81	97	90	84	80	87	82	79	85	81	77	82	79	76	74					74			
4	93	84	77	72	91	82	76	72	80	75	71	78	74	70	76	72	69	67					67			
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61					61			
6	81	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	57	56					56			
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51					51			
8	72	61	54	49	71	60	54	49	59	53	49	58	53	49	57	52	49	47					47			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43					43			
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	235876	235876	235876
5°	231543	234059	237297
10°	225609	230744	237736
15°	223054	227960	235048
20°	220722	225172	231611
25°	216380	220289	225825
30°	204012	203090	201851
35°	167814	162032	161106
40°	105079	115943	125347
45°	68575	76456	84733
50°	54070	56670	60383
55°	44074	44837	46224
60°	36066	35832	35671
65°	23363	22699	21481
70°	8033	7447	6870
75°	2764	2609	2466
80°	1154	923	923
85°	460	460	460



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	716.5	6.6
10°-20°	2018.9	18.5
20°-30°	2952.6	27.1
30°-40°	2675.4	24.6
40°-50°	1422.6	13.1
50°-60°	759.2	7.0
60°-70°	309.7	2.8
70°-80°	31.2	0.3
80°-90°	1.8	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°	5688.0	52.2
0°-40°	8363.5	76.8
0°-60°	10545.3	96.9
0°-90°	10888.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10888.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7649	7649	7649	7649	7649	
5°	7480	7500	7562	7630	7666	705
15°	6987	7027	7141	7288	7363	1971
25°	6360	6387	6474	6586	6637	2906
35°	4458	4396	4304	4272	4280	2679
45°	1572	1619	1753	1893	1943	1286
55°	820	818	834	846	860	743
65°	320	319	311	293	294	319
75°	23	23	22	21	21	33
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7649.3	7649.3	7649.3	7649.3	7649.3
2.5°	7608.0	7606.7	7620.9	7637.7	7646.7
5°	7480.2	7499.6	7561.5	7629.9	7666.1
7.5°	7335.6	7371.7	7478.9	7596.4	7659.6
10°	7205.2	7251.7	7369.2	7522.8	7592.5
12.5°	7092.9	7138.1	7256.8	7414.3	7490.5
15°	6987.0	7027.0	7140.7	7287.8	7362.7
17.5°	6864.4	6903.1	7012.8	7152.3	7216.8
20°	6726.2	6758.5	6861.8	6992.2	7058.0
22.5°	6554.5	6589.4	6694.0	6814.0	6876.0
25°	6359.6	6386.7	6474.5	6585.5	6637.2
27.5°	6088.5	6113.0	6164.6	6224.0	6262.8
30°	5729.6	5723.1	5703.7	5685.7	5668.9
32.5°	5200.2	5138.3	5044.0	4984.6	4987.2
35°	4457.9	4395.9	4304.3	4272.0	4279.7
37.5°	3483.2	3529.7	3567.1	3629.1	3658.8
40°	2610.4	2690.5	2880.3	3045.5	3113.9
42.5°	1962.4	2041.1	2239.9	2414.2	2508.5
45°	1572.5	1618.9	1753.2	1892.6	1943.0
47.5°	1316.8	1337.5	1415.0	1504.0	1547.9
50°	1127.1	1140.0	1181.3	1230.3	1258.7
52.5°	965.7	970.8	991.5	1019.9	1038.0
55°	819.8	818.5	834.0	845.6	859.8
57.5°	693.3	692.0	692.0	695.9	704.9
60°	584.8	581.0	581.0	575.8	578.4
62.5°	476.4	472.5	463.5	457.0	454.4
65°	320.2	318.9	311.1	293.1	294.4
67.5°	166.5	165.3	157.5	152.3	149.8
70°	89.1	86.5	82.6	78.8	76.2
72.5°	45.2	43.9	42.6	40.0	40.0
75°	23.2	23.2	21.9	20.7	20.7
77.5°	11.6	11.6	10.3	10.3	10.3
80°	6.5	6.5	5.2	5.2	5.2
82.5°	2.6	2.6	2.6	2.6	2.6
85°	1.3	1.3	1.3	1.3	1.3
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)