

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: P247153

Luminaire Tested: **LSR8B120D010 EC8B120835 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247153
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: LSR8B120D010 EC8B120835 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12424.0 lumens
Efficiency: N/A
Efficacy: 105.0 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

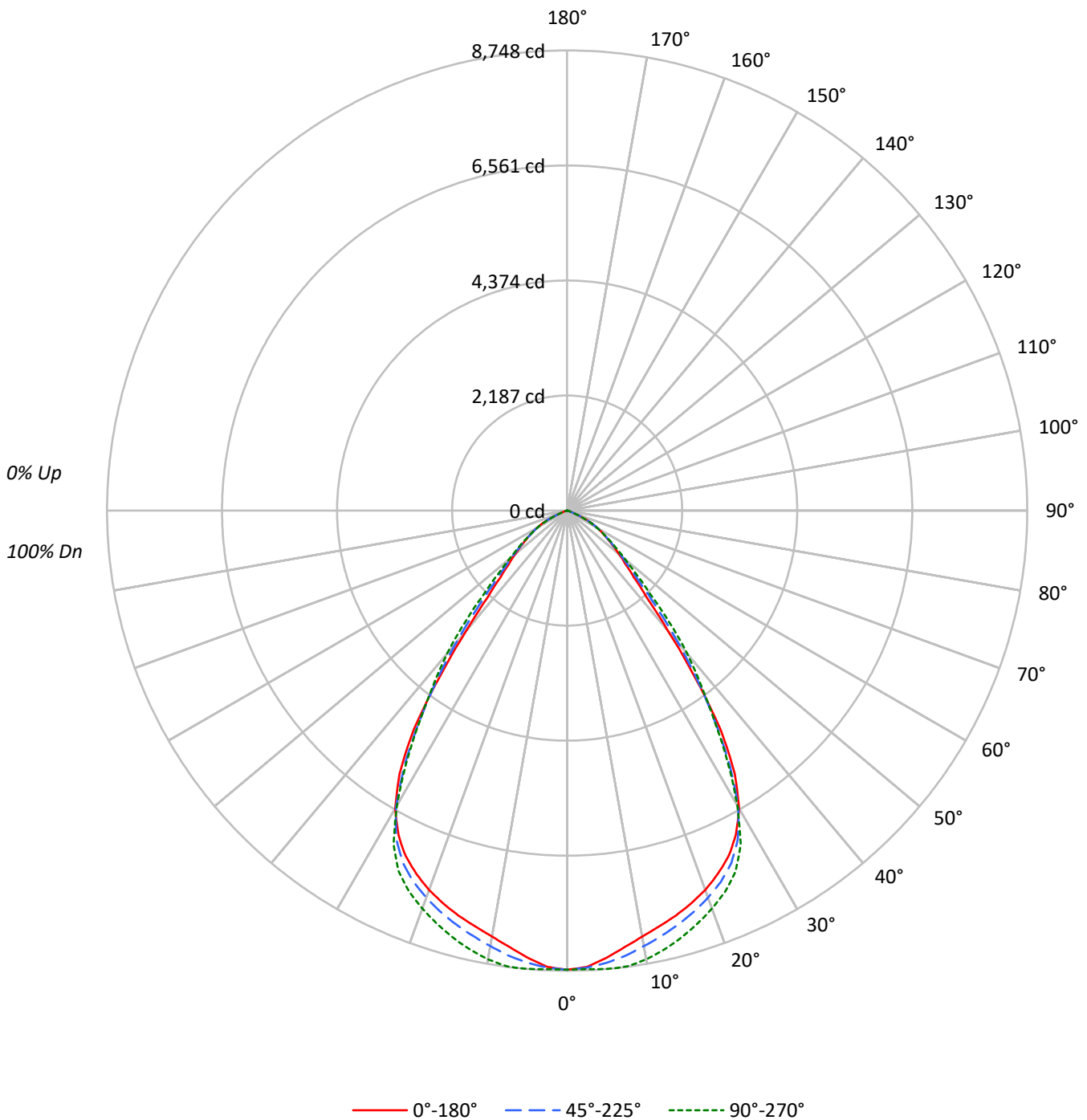
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	269152	269152	269152
5°	264206	267081	270774
10°	257438	263296	271275
15°	254521	260118	268207
20°	251861	256937	264285
25°	246903	251367	257682
30°	232790	231743	230326
35°	191488	184889	183835
40°	119904	132299	143030
45°	78248	87240	96686
50°	61698	64663	68903
55°	50294	51165	52745
60°	41154	40883	40704
65°	26654	25903	24509
70°	9160	8502	7835
75°	3157	2979	2812
80°	1314	1048	1048
85°	531	531	531



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	817.6	6.6
10°-20°	2303.7	18.5
20°-30°	3369.2	27.1
30°-40°	3052.8	24.6
40°-50°	1623.3	13.1
50°-60°	866.3	7.0
60°-70°	353.4	2.8
70°-80°	35.7	0.3
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°	6490.5	52.2
0°-40°	9543.3	76.8
0°-60°	12032.9	96.9
0°-90°	12424.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12424.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8728	8728	8728	8728	8728	
5°	8535	8558	8628	8706	8748	805
15°	7973	8018	8148	8316	8401	2249
25°	7257	7288	7388	7514	7574	3316
35°	5087	5016	4912	4875	4884	3057
45°	1794	1847	2000	2160	2217	1468
55°	936	934	952	965	981	848
65°	365	364	355	334	336	364
75°	26	26	25	24	24	38
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8728.4	8728.4	8728.4	8728.4	8728.4
2.5°	8681.3	8679.8	8696.0	8715.2	8725.5
5°	8535.4	8557.5	8628.3	8706.3	8747.6
7.5°	8370.4	8411.7	8534.0	8668.0	8740.2
10°	8221.7	8274.7	8408.8	8584.1	8663.6
12.5°	8093.5	8145.1	8280.6	8460.3	8547.2
15°	7972.7	8018.4	8148.0	8315.9	8401.4
17.5°	7832.7	7876.9	8002.2	8161.3	8234.9
20°	7675.1	7711.9	7829.8	7978.6	8053.7
22.5°	7479.2	7519.0	7638.3	7775.3	7846.0
25°	7256.7	7287.7	7387.9	7514.5	7573.5
27.5°	6947.4	6975.4	7034.3	7102.1	7146.3
30°	6537.8	6530.5	6508.4	6487.8	6468.6
32.5°	5933.9	5863.1	5755.6	5687.8	5690.8
35°	5086.8	5016.1	4911.5	4874.7	4883.5
37.5°	3974.6	4027.6	4070.3	4141.0	4174.9
40°	2978.7	3070.0	3286.6	3475.2	3553.2
42.5°	2239.2	2329.1	2555.9	2754.8	2862.3
45°	1794.3	1847.3	2000.5	2159.6	2217.1
47.5°	1502.6	1526.2	1614.6	1716.2	1766.3
50°	1286.1	1300.8	1347.9	1403.9	1436.3
52.5°	1101.9	1107.8	1131.4	1163.8	1184.4
55°	935.5	934.0	951.7	964.9	981.1
57.5°	791.1	789.6	789.6	794.0	804.3
60°	667.3	662.9	662.9	657.0	660.0
62.5°	543.6	539.2	528.9	521.5	518.5
65°	365.3	363.9	355.0	334.4	335.9
67.5°	190.0	188.6	179.7	173.8	170.9
70°	101.6	98.7	94.3	89.9	86.9
72.5°	51.6	50.1	48.6	45.7	45.7
75°	26.5	26.5	25.0	23.6	23.6
77.5°	13.3	13.3	11.8	11.8	11.8
80°	7.4	7.4	5.9	5.9	5.9
82.5°	2.9	2.9	2.9	2.9	2.9
85°	1.5	1.5	1.5	1.5	1.5
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)