

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: FAIL-SAFE

Report Number: P23177_UC1

Luminaire Tested: UC1BSC36P

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P23177_UC1
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1709-269-1-R2)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: UC1BSC36P
Description: FAILSAFE UNDERCAB COLOR TUNABLE 36"
Light Source: (192) 2700K CCT, 95 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

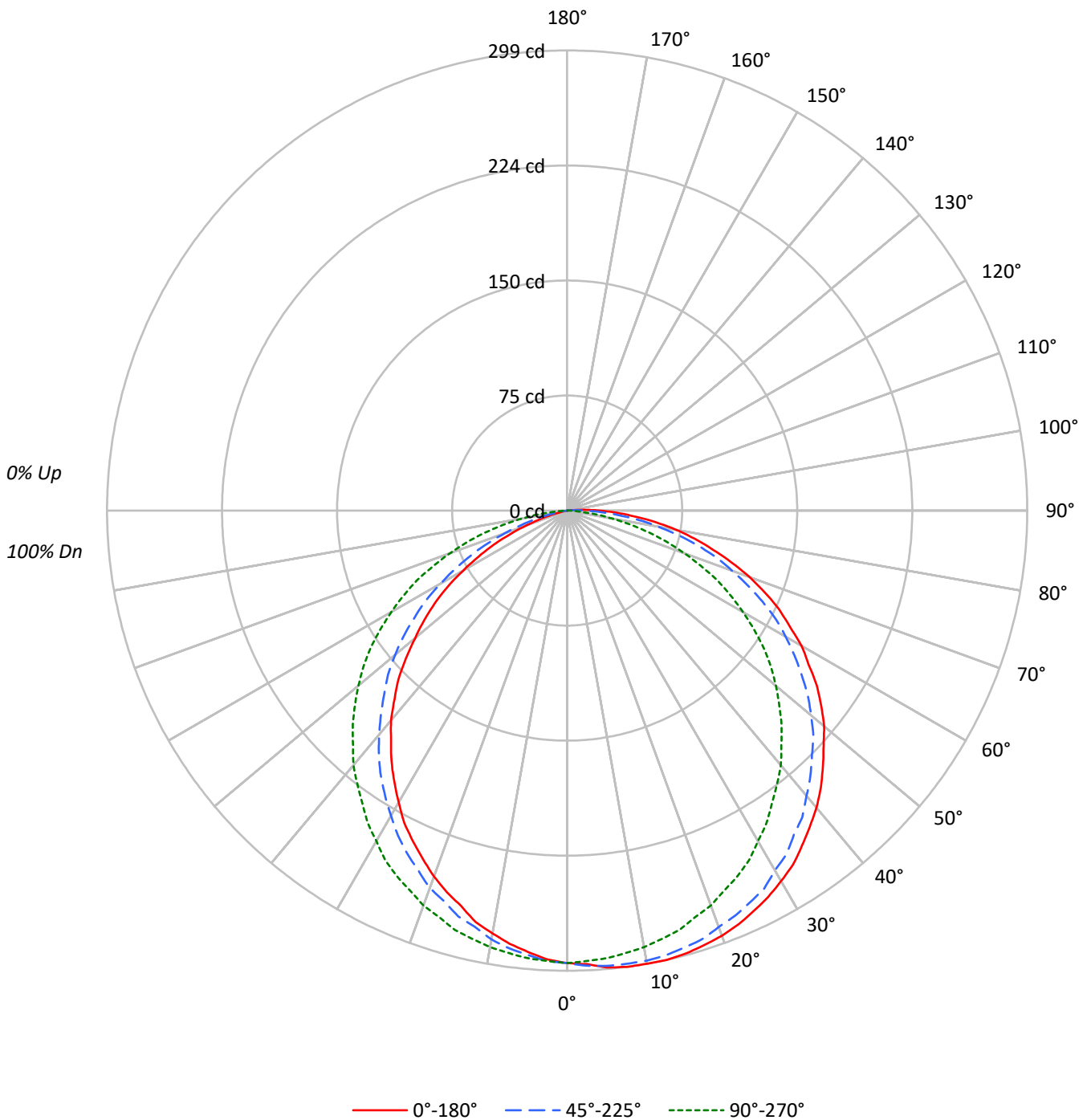
Lumens per Lamp: N/A
Luminaire Lumens: 844.0 lumens
Efficiency: N/A
Efficacy: 59.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 2.82' x L: 0.09' x H: 0.01')
CIE Type: Direct

Input Watts (W): 14.2
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: 24 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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83					83			
2	99	90	83	78	96	88	82	77	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	64	60	58					58			
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50					50			
5	76	63	54	47	73	61	53	47	59	52	46	57	51	46	55	50	45	43					43			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37					37			
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	12661	12661	12661	12661	12661
5°	12751	12743	12619	12443	12323
10°	12809	12794	12586	12191	11952
15°	12880	12813	12560	11898	11497
20°	12920	12799	12494	11599	11119
25°	12928	12839	12428	11239	10676
30°	12945	12793	12306	10850	10198
35°	12920	12745	12165	10464	9666
40°	12894	12691	12105	9964	9108
45°	12806	12620	11954	9423	8446
50°	12809	12582	11807	8874	7580
55°	12728	12441	11651	8093	6749
60°	12593	12298	11297	7124	5581
65°	12368	12049	10919	5938	4313
70°	11990	11616	10097	4381	2664
75°	11331	11091	9027	2521	1041
80°	10710	10009	7045	667	0
85°	9272	8232	3793	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 12809 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.8	3.3
10°-20°	79.8	9.5
20°-30°	121.1	14.3
30°-40°	145.9	17.3
40°-50°	151.4	17.9
50°-60°	137.0	16.2
60°-70°	103.2	12.2
70°-80°	57.5	6.8
80°-90°	18.6	2.2
90°-100°	1.6	0.2
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°	228.6	27.1
0°-40°	374.6	44.4
0°-60°	663.1	78.6
0°-90°	842.3	99.8
90°-120°	1.6	0.2
90°-150°	1.6	0.2
90°-180°	2.0	0.2
0°-180°	844.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	294	294	294	294	294	
5°	298	297	292	290	288	28
15°	298	294	282	273	266	84
25°	287	281	262	246	237	133
35°	266	257	232	211	199	167
45°	235	225	197	168	155	182
55°	198	186	156	121	105	177
65°	152	140	108	69	53	150
75°	98	88	55	20	9	104
85°	44	33	8	0	0	42
90°	21	12	0	0	0	12
95°	3	0	0	0	0	2
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	294	294	294	294	294	294	294	294	294
2.5°	295	295	296	294	293	292	293	293	292
5°	298	298	297	294	292	290	290	290	288
7.5°	299	299	297	294	290	288	287	286	284
10°	299	298	297	292	288	283	283	281	279
12.5°	299	298	296	291	285	281	277	276	274
15°	298	296	294	288	282	276	273	270	266
17.5°	296	295	292	284	277	271	266	263	260
20°	294	292	288	282	273	266	261	256	253
22.5°	291	289	285	277	267	259	253	248	245
25°	287	285	281	272	262	253	246	240	237
27.5°	283	281	277	267	256	246	238	232	229
30°	278	276	270	260	248	237	229	223	219
32.5°	273	270	265	253	241	230	220	213	209
35°	266	263	257	245	232	221	211	203	199
37.5°	259	257	251	238	224	212	201	193	188
40°	252	249	242	230	216	202	190	181	178
42.5°	244	241	234	222	206	192	179	170	166
45°	235	233	225	211	197	182	168	159	155
47.5°	226	224	217	202	187	171	158	148	142
50°	218	215	207	193	177	160	146	134	129
52.5°	208	204	197	182	167	150	134	122	117
55°	198	195	186	172	156	138	121	109	105
57.5°	186	184	175	161	144	126	109	97	92
60°	176	172	164	149	132	113	95	83	78
62.5°	163	160	153	137	120	100	82	70	65
65°	152	148	140	125	108	87	69	57	53
67.5°	139	135	127	112	94	74	56	44	40
70°	126	122	114	99	81	61	43	33	28
72.5°	112	109	102	85	68	48	31	21	18
75°	98	96	88	72	55	35	20	12	9
77.5°	85	82	74	59	42	24	11	5	3
80°	72	69	60	45	29	13	4	0	0
82.5°	58	54	47	33	19	5	0	0	0
85°	44	42	33	21	8	1	0	0	0
87.5°	32	30	22	11	2	0	0	0	0
90°	21	19	12	5	0	0	0	0	0
92.5°	12	10	6	0	0	0	0	0	0
95°	3	1	0	0	0	0	0	0	0
97.5°	0	0	0	0	0	0	0	0	0
100°	0	0	0	0	0	0	0	0	0
102.5°	0	0	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0	0	0
107.5°	0	0	0	0	0	0	0	0	0
110°	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	0	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0	0
117.5°	0	0	0	0	0	0	0	0	0
120°	0	0	0	0	0	0	0	0	0
122.5°	0	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0	0
127.5°	0	0	0	0	0	0	0	0	0
130°	0	0	0	0	0	0	0	0	0
132.5°	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0
137.5°	0	0	0	0	0	0	0	0	0
140°	0	0	0	0	0	0	0	0	0
142.5°	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0
147.5°	0	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0	0
152.5°	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0
157.5°	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0

(END OF REPORT)