

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: METALUX

Report Number: G2-1706-104-1

Luminaire Tested: **4SHP3240BTS**

Test Date: 07/13/17



Test Information

Test Method: LM-79-08
Report Number: G2-1706-104-1
Test Lab: INNOVATION CENTER(G2)
Test Date: 07/13/17
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SHP3240BTS
Description: 4FT LED BLUETOOTH SHOPLIGHT
Light Source: (198) REFOND 4000K 80 CRI LEDS
RT-HI32DS-EF-N-Y
Ballast/Driver: (1) 120V ELECTRONIC DRIVER
035W057A-Q/0A

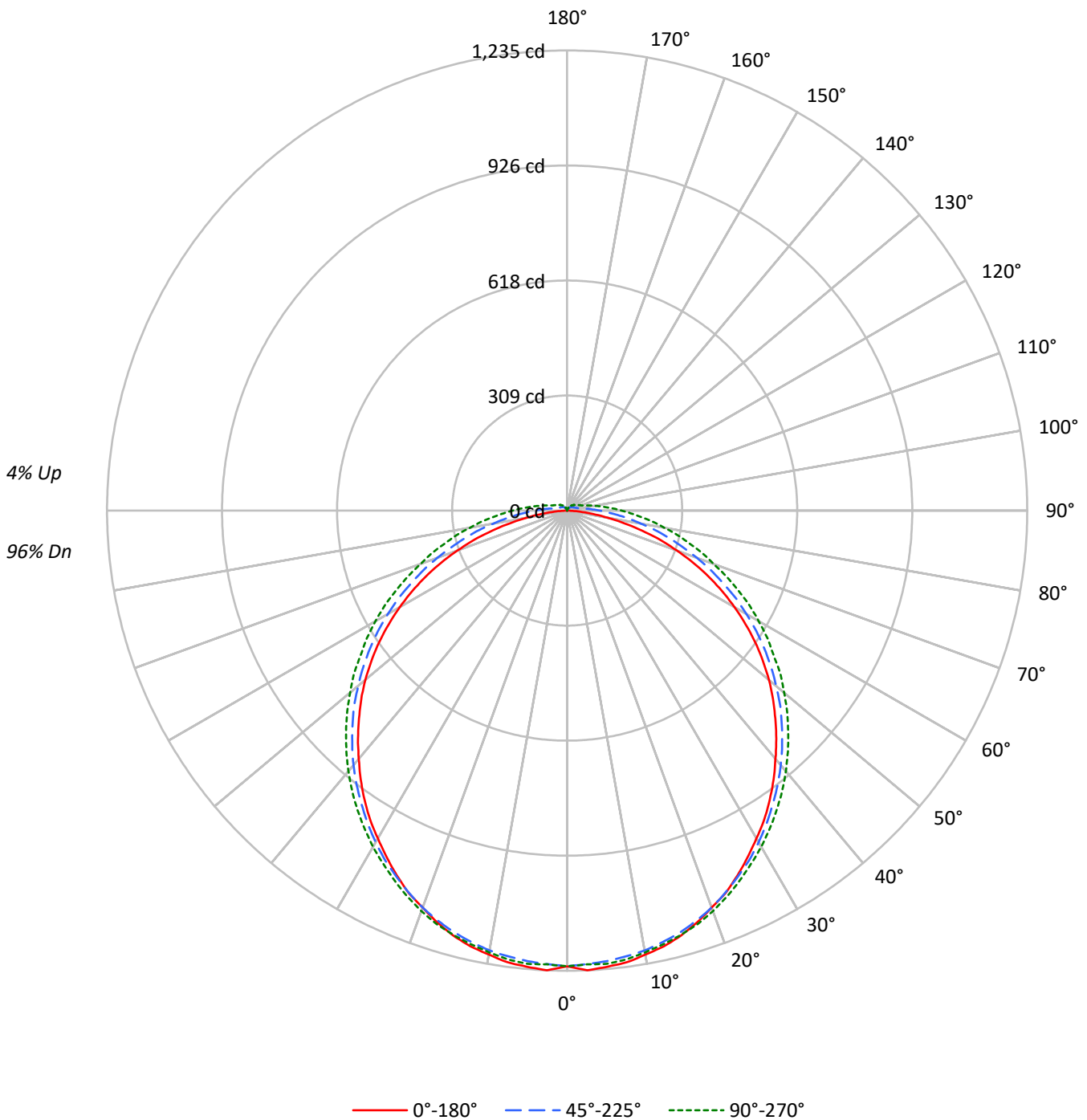
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3782.6 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.27 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 3.67' x H: 0.02')
CIE Type: Direct

Input Watts (W): 31.1
Input Voltage (V): 120.0
Input Current (Ain): 0.264
Voltage Rise (V): NR
Power Factor: 0.9965
Total Harmonic Distortion (THDi): 17.8%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 24 HR
Ambient Temperature (°C): 25.1
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	0	
RCR																						
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	96				
1	107	102	97	93	104	99	95	91	94	91	87	90	87	84	85	83	81	79				
2	97	88	81	75	94	86	79	74	82	76	71	78	73	69	74	71	67	65				
3	88	77	69	62	85	75	67	61	72	65	60	68	63	58	65	61	57	54				
4	81	68	59	52	78	67	58	52	64	56	51	61	55	49	58	53	48	46				
5	74	61	52	45	72	59	51	44	57	49	44	55	48	43	52	47	42	40				
6	68	55	46	39	66	54	45	39	51	44	38	49	43	37	47	41	37	35				
7	63	50	41	34	61	49	40	34	47	39	34	45	38	33	43	37	33	31				
8	59	45	37	31	57	44	36	30	43	35	30	41	34	30	40	34	29	27				
9	55	41	33	28	53	41	33	27	39	32	27	38	31	27	37	31	26	24				
10	52	38	30	25	50	38	30	25	36	29	24	35	29	24	34	28	24	22				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21541	21541	21541
5°	21717	21258	21309
10°	21615	21033	20979
15°	21496	20755	20668
20°	21203	20431	20333
25°	20942	20031	19908
30°	20583	19650	19504
35°	20287	19195	19089
40°	19890	18764	18646
45°	19545	18275	18173
50°	19217	17717	17667
55°	18734	17126	17096
60°	18070	16401	16610
65°	17211	15556	15956
70°	15823	14605	15244
75°	13804	13526	14790
80°	10840	12454	14524
85°	6374	12121	14815



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.6	3.1
10°-20°	330.7	8.7
20°-30°	499.0	13.2
30°-40°	600.4	15.9
40°-50°	626.4	16.6
50°-60°	575.8	15.2
60°-70°	456.7	12.1
70°-80°	294.6	7.8
80°-90°	142.9	3.8
90°-100°	60.2	1.6
100°-110°	29.5	0.8
110°-120°	19.0	0.5
120°-130°	13.6	0.4
130°-140°	9.2	0.2
140°-150°	5.4	0.1
150°-160°	2.5	0.1
160°-170°	0.9	0.0
170°-180°	0.2	0.0
0°-30°	945.3	25.0
0°-40°	1545.7	40.9
0°-60°	2747.8	72.6
0°-90°	3642.1	96.3
90°-120°	108.8	2.9
90°-150°	136.9	3.6
90°-180°	141.0	3.7
0°-180°	3782.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1223	1223	1223	1223	1223	
5°	1229	1209	1214	1216	1221	117
15°	1181	1162	1172	1177	1179	333
25°	1081	1069	1084	1090	1096	498
35°	948	941	962	972	981	593
45°	790	790	815	828	839	610
55°	616	618	646	665	676	550
65°	419	429	462	491	506	413
75°	208	233	281	323	339	221
85°	34	75	136	181	199	44
90°	0	33	87	130	146	1
95°	0	16	54	90	105	0
105°	0	10	27	45	53	0
115°	0	8	20	30	35	0
125°	1	7	16	24	26	1
135°	1	6	13	18	20	1
145°	1	4	9	13	15	1
155°	2	3	5	8	9	1
165°	2	2	3	3	5	1
175°	2	2	2	1	0	0
180°	1	1	1	1	1	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1223	1223	1223	1223	1223
2.5°	1235	1214	1218	1220	1219
5°	1229	1209	1214	1216	1221
7.5°	1223	1202	1207	1212	1215
10°	1210	1191	1199	1201	1204
12.5°	1198	1177	1186	1189	1192
15°	1181	1162	1172	1177	1179
17.5°	1159	1141	1154	1160	1164
20°	1134	1120	1134	1138	1144
22.5°	1111	1095	1110	1114	1121
25°	1081	1069	1084	1090	1096
27.5°	1049	1038	1058	1063	1069
30°	1016	1008	1028	1035	1042
32.5°	984	974	996	1004	1012
35°	948	941	962	972	981
37.5°	910	905	928	937	948
40°	870	866	892	901	913
42.5°	831	830	854	866	877
45°	790	790	815	828	839
47.5°	750	749	776	788	801
50°	707	706	732	748	760
52.5°	662	663	690	708	722
55°	616	618	646	665	676
57.5°	568	573	602	622	637
60°	519	525	555	579	594
62.5°	469	478	511	534	552
65°	419	429	462	491	506
67.5°	367	380	417	447	463
70°	313	330	370	405	418
72.5°	262	281	325	362	381
75°	208	233	281	323	339
77.5°	158	185	242	284	303
80°	111	143	200	248	265
82.5°	69	106	166	212	233
85°	34	75	136	181	199
87.5°	9	51	109	154	171
90°	0	33	87	130	146
92.5°	0	22	69	109	124
95°	0	16	54	90	105
97.5°	0	12	43	75	88
100°	0	11	35	62	74
102.5°	0	10	30	53	63
105°	0	10	27	45	53
107.5°	0	9	25	39	46
110°	0	9	23	35	41



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0	9	21	33	37
115°	0	8	20	30	35
117.5°	1	8	19	28	32
120°	0	8	18	27	30
122.5°	1	7	17	25	28
125°	1	7	16	24	26
127.5°	1	7	15	22	25
130°	1	6	15	21	23
132.5°	1	6	14	19	22
135°	1	6	13	18	20
137.5°	1	5	12	17	19
140°	1	5	11	16	17
142.5°	1	4	10	14	16
145°	1	4	9	13	15
147.5°	1	4	8	12	13
150°	1	4	7	10	12
152.5°	2	3	6	9	10
155°	2	3	5	8	9
157.5°	2	3	5	6	8
160°	2	3	4	5	7
162.5°	2	3	3	4	6
165°	2	2	3	3	5
167.5°	2	2	3	3	4
170°	2	2	2	2	2
172.5°	2	2	2	2	1
175°	2	2	2	1	0
177.5°	2	2	2	1	0
180°	1	1	1	1	1

(END OF REPORT)