

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: P345171

Luminaire Tested: **14CZ-39-L835-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345171
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1905-313-1)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-39-L835-HRP-UNV-CD1-U
Description: CRUZE 1X4 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3477.7 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

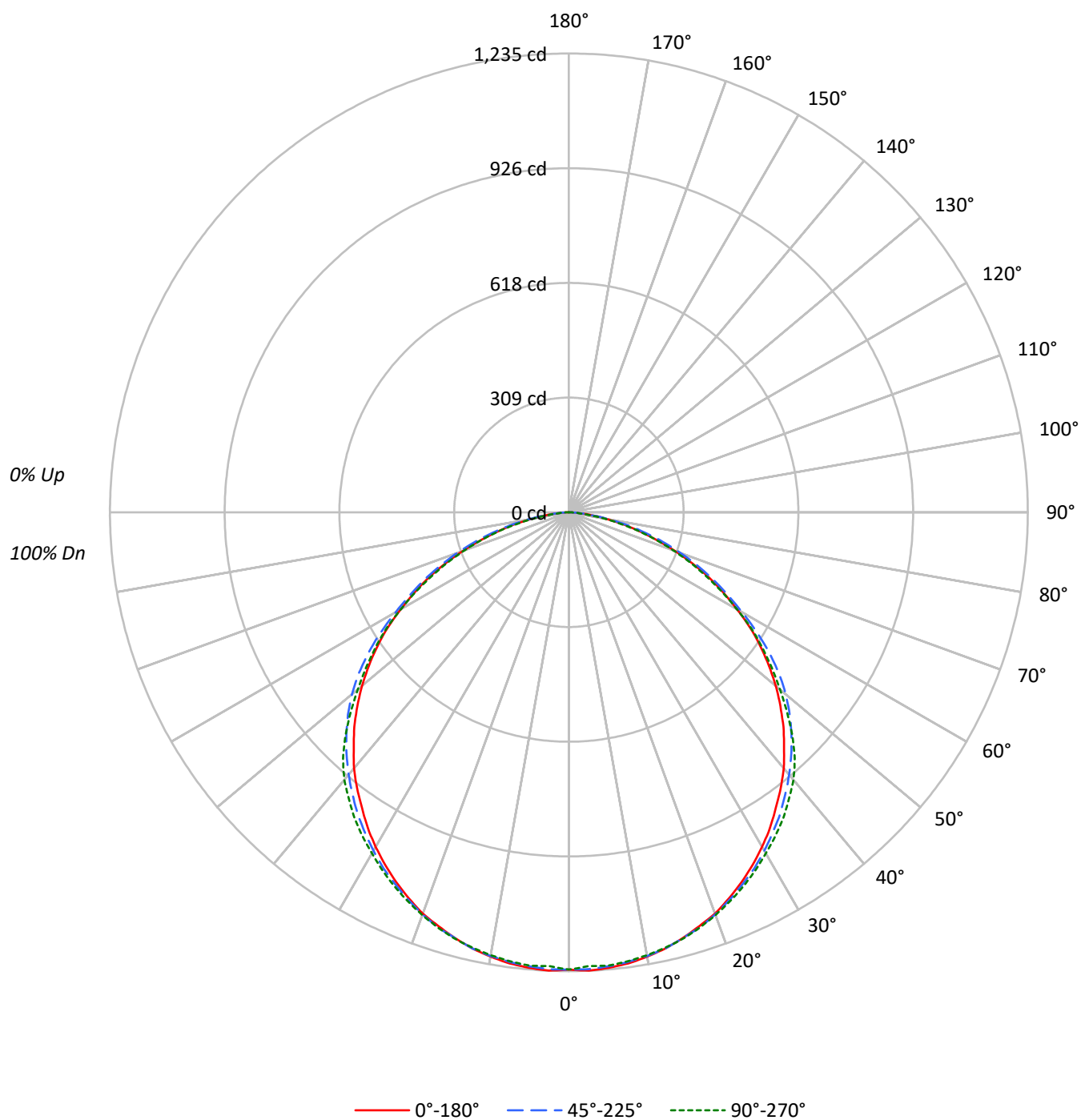
Input Watts (W): 35.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	104	100	96	106	102	98	95		98	95	92		94	91	89		90	88	86
2	99	91	84	79	97	89	83	78		86	80	76		82	78	74		79	76	73
3	90	80	72	65	88	78	71	65		75	69	64		73	67	63		70	66	62
4	83	71	62	55	81	70	61	55		67	60	54		65	59	54		63	57	53
5	76	63	54	48	74	62	54	47		60	53	47		58	52	46		56	51	46
6	70	57	48	42	68	56	48	41		54	47	41		53	46	41		51	45	40
7	65	52	43	37	63	51	43	37		49	42	36		48	41	36		46	40	36
8	61	47	39	33	59	46	38	33		45	38	32		44	37	32		43	37	32
9	57	43	35	29	55	43	35	29		41	34	29		40	34	29		39	33	29
10	53	40	32	27	52	39	32	27		38	31	26		37	31	26		36	31	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3312	3312	3312
5°	3324	3313	3308
10°	3318	3313	3307
15°	3304	3304	3310
20°	3292	3297	3303
25°	3262	3280	3298
30°	3231	3269	3294
35°	3189	3256	3302
40°	3160	3239	3303
45°	3107	3223	3238
50°	3044	3188	3103
55°	2953	3087	2982
60°	2809	2897	2809
65°	2651	2728	2599
70°	2381	2508	2349
75°	2048	2217	2006
80°	1605	1731	1447
85°	1130	1003	877



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.5	3.3
10°-20°	334.6	9.6
20°-30°	508.3	14.6
30°-40°	617.5	17.8
40°-50°	645.0	18.5
50°-60°	573.6	16.5
60°-70°	418.6	12.0
70°-80°	218.4	6.3
80°-90°	45.1	1.3
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°	959.4	27.6
0°-40°	1576.9	45.3
0°-60°	2795.6	80.4
0°-90°	3477.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3477.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1231	1231	1231	1231	1231	
5°	1231	1222	1227	1225	1225	117
15°	1186	1180	1186	1188	1188	335
25°	1099	1095	1105	1107	1111	506
35°	971	971	991	997	1005	608
45°	816	818	847	853	851	629
55°	630	642	658	640	636	561
65°	416	439	428	416	408	410
75°	197	215	213	199	193	210
85°	37	41	32	28	28	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1230.6	1230.6	1230.6	1230.6	1230.6
2.5°	1234.7	1226.6	1230.6	1228.6	1222.5
5°	1230.6	1222.5	1226.6	1224.6	1224.6
7.5°	1224.6	1216.4	1220.5	1218.5	1218.5
10°	1214.4	1206.3	1212.4	1210.3	1210.3
12.5°	1202.2	1194.1	1202.2	1200.2	1200.2
15°	1186.0	1179.9	1186.0	1188.0	1188.0
17.5°	1167.7	1163.6	1171.8	1171.8	1171.8
20°	1149.4	1143.3	1151.4	1151.4	1153.5
22.5°	1125.0	1119.0	1129.1	1127.1	1133.2
25°	1098.6	1094.6	1104.7	1106.8	1110.8
27.5°	1070.2	1068.2	1080.4	1082.4	1086.5
30°	1039.8	1035.7	1051.9	1054.0	1060.1
32.5°	1007.3	1007.3	1021.5	1025.5	1033.7
35°	970.7	970.7	991.0	997.1	1005.2
37.5°	936.2	936.2	956.5	966.6	972.7
40°	899.6	899.6	922.0	932.1	940.2
42.5°	857.0	859.0	885.4	895.6	899.6
45°	816.4	818.4	846.8	852.9	850.9
47.5°	771.7	777.8	806.2	802.2	796.1
50°	727.0	733.1	761.5	745.3	741.2
52.5°	678.3	688.4	712.8	690.5	688.4
55°	629.5	641.7	658.0	639.7	635.6
57.5°	578.8	595.0	599.1	586.9	582.8
60°	521.9	544.2	538.2	528.0	521.9
62.5°	469.1	489.4	481.3	471.1	465.0
65°	416.3	438.6	428.5	416.3	408.2
67.5°	359.4	385.8	373.7	359.4	353.4
70°	302.6	324.9	318.8	304.6	298.5
72.5°	247.8	268.1	266.0	251.8	245.7
75°	197.0	215.3	213.2	199.0	192.9
77.5°	148.2	166.5	160.4	148.2	142.2
80°	103.6	119.8	111.7	99.5	93.4
82.5°	67.0	75.1	67.0	56.9	52.8
85°	36.6	40.6	32.5	28.4	28.4
87.5°	12.2	14.2	14.2	14.2	14.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)