

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: P345167

Luminaire Tested: **14CZ-35-L835-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345167
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-35-L835-HRP-UNV-CD1-U
Description: CRUZE 1X4 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3153.6 lumens
Efficiency: N/A
Efficacy: 100.1 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

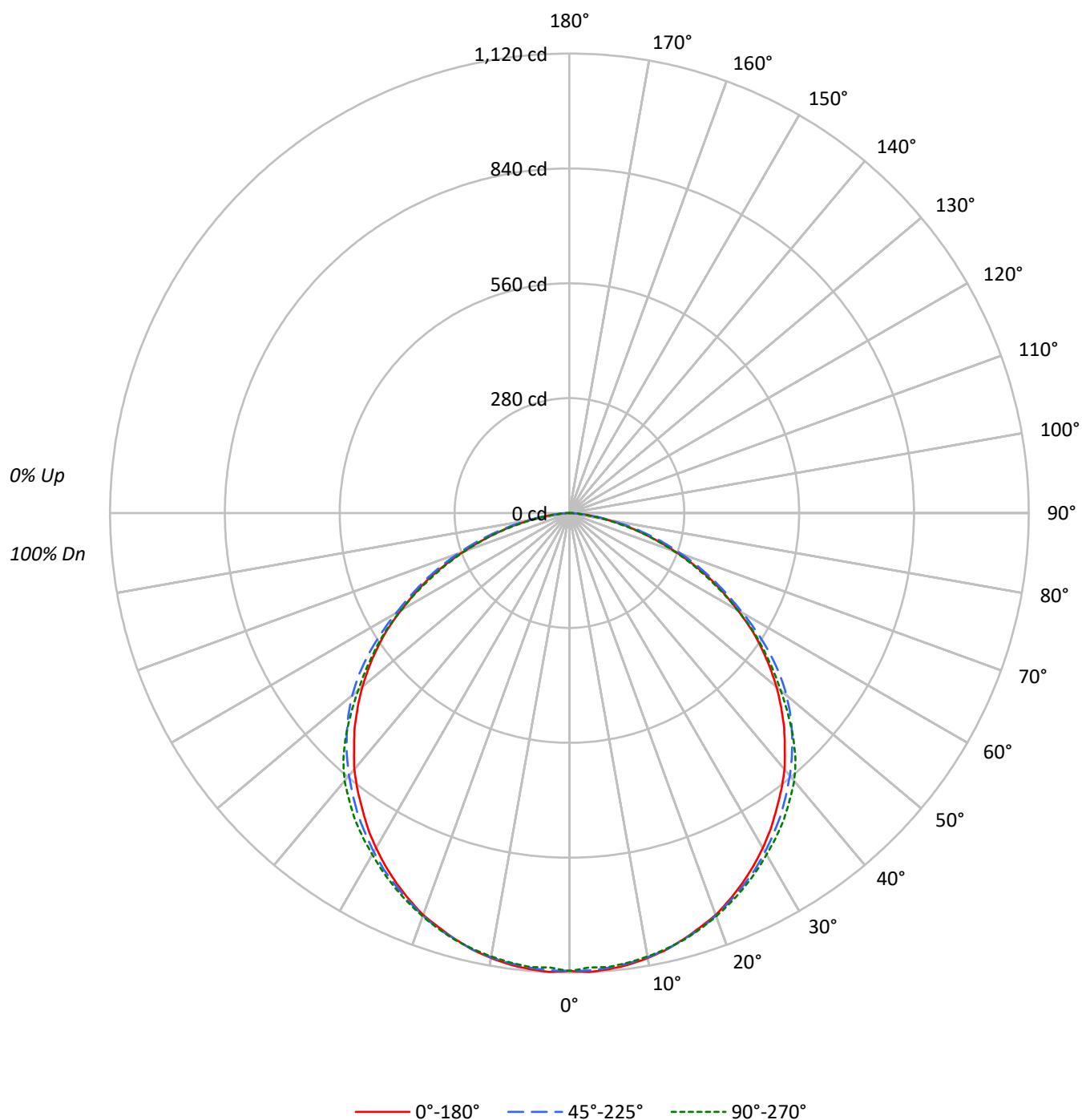
Input Watts (W): 31.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3003	3003	3003
5°	3014	3005	2999
10°	3009	3004	2999
15°	2996	2996	3001
20°	2985	2990	2995
25°	2958	2975	2991
30°	2930	2964	2987
35°	2892	2952	2994
40°	2866	2937	2995
45°	2817	2922	2936
50°	2760	2891	2814
55°	2678	2799	2704
60°	2547	2626	2547
65°	2404	2474	2357
70°	2159	2275	2130
75°	1857	2011	1818
80°	1455	1570	1313
85°	1022	911	797



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.6	3.3
10°-20°	303.4	9.6
20°-30°	461.0	14.6
30°-40°	559.9	17.8
40°-50°	584.9	18.5
50°-60°	520.2	16.5
60°-70°	379.6	12.0
70°-80°	198.0	6.3
80°-90°	40.9	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°	870.0	27.6
0°-40°	1429.9	45.3
0°-60°	2535.0	80.4
0°-90°	3153.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3153.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1116	1116	1116	1116	1116	
5°	1116	1109	1112	1110	1110	106
15°	1075	1070	1075	1077	1077	304
25°	996	993	1002	1004	1007	459
35°	880	880	899	904	912	552
45°	740	742	768	773	772	570
55°	571	582	597	580	576	509
65°	378	398	389	378	370	372
75°	179	195	193	180	175	190
85°	33	37	30	26	26	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1115.9	1115.9	1115.9	1115.9	1115.9
2.5°	1119.6	1112.3	1115.9	1114.1	1108.6
5°	1115.9	1108.6	1112.3	1110.4	1110.4
7.5°	1110.4	1103.1	1106.7	1104.9	1104.9
10°	1101.2	1093.8	1099.4	1097.5	1097.5
12.5°	1090.2	1082.8	1090.2	1088.3	1088.3
15°	1075.4	1069.9	1075.4	1077.3	1077.3
17.5°	1058.9	1055.2	1062.5	1062.5	1062.5
20°	1042.3	1036.8	1044.1	1044.1	1046.0
22.5°	1020.2	1014.7	1023.9	1022.0	1027.6
25°	996.2	992.6	1001.8	1003.6	1007.3
27.5°	970.5	968.6	979.7	981.5	985.2
30°	942.8	939.2	953.9	955.7	961.3
32.5°	913.4	913.4	926.3	930.0	937.3
35°	880.2	880.2	898.6	904.2	911.5
37.5°	848.9	848.9	867.3	876.5	882.1
40°	815.8	815.8	836.0	845.2	852.6
42.5°	777.1	779.0	802.9	812.1	815.8
45°	740.3	742.1	767.9	773.4	771.6
47.5°	699.8	705.3	731.1	727.4	721.9
50°	659.3	664.8	690.6	675.8	672.1
52.5°	615.1	624.3	646.4	626.1	624.3
55°	570.9	581.9	596.6	580.1	576.4
57.5°	524.8	539.6	543.2	532.2	528.5
60°	473.3	493.5	488.0	478.8	473.3
62.5°	425.4	443.8	436.4	427.2	421.7
65°	377.5	397.8	388.6	377.5	370.1
67.5°	325.9	349.9	338.8	325.9	320.4
70°	274.4	294.6	289.1	276.2	270.7
72.5°	224.7	243.1	241.2	228.3	222.8
75°	178.6	195.2	193.4	180.5	174.9
77.5°	134.4	151.0	145.5	134.4	128.9
80°	93.9	108.6	101.3	90.2	84.7
82.5°	60.8	68.1	60.8	51.6	47.9
85°	33.1	36.8	29.5	25.8	25.8
87.5°	11.0	12.9	12.9	12.9	12.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)