

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: P345168

Luminaire Tested: **14CZ-35-L840-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345168
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-L840-HRP-UNV-CD1-U
Description: CRUZE 1X4 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3216.8 lumens
Efficiency: N/A
Efficacy: 102.1 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

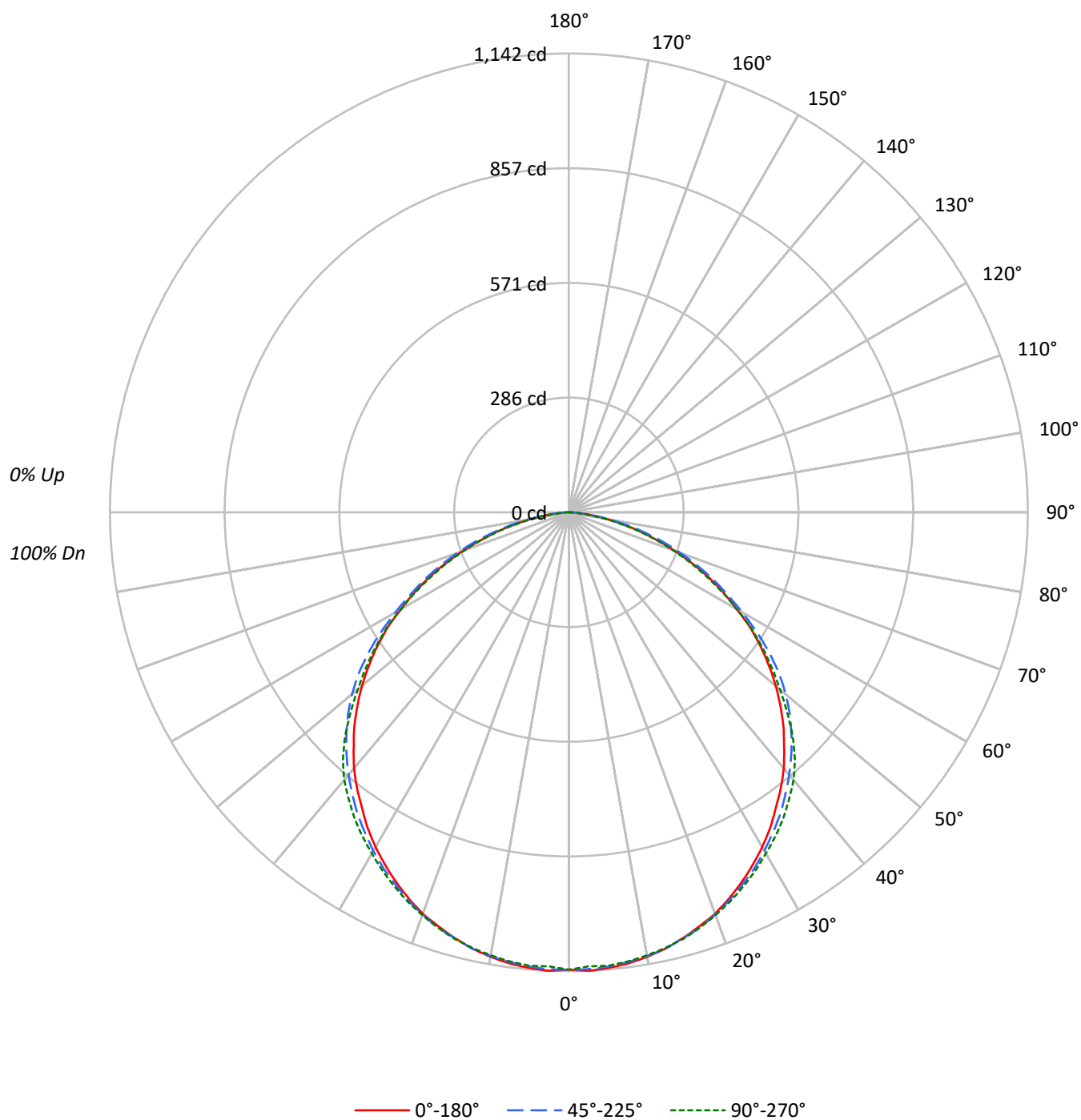
Input Watts (W): 31.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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		100
1	109	104	100	96	106	102	98	95	98	95	92		94	91	89		84
2	99	91	84	79	97	89	83	78	86	80	76		82	78	74		70
3	90	80	72	65	88	78	71	65	75	69	64		73	67	63		59
4	83	71	62	55	81	70	61	55	67	60	54		65	59	54		51
5	76	63	54	48	74	62	54	47	60	53	47		58	52	46		44
6	70	57	48	42	68	56	48	41	54	47	41		53	46	41		38
7	65	52	43	37	63	51	43	37	49	42	36		48	41	36		34
8	61	47	39	33	59	46	38	33	45	38	32		44	37	32		30
9	57	43	35	29	55	43	35	29	41	34	29		40	34	29		27
10	53	40	32	27	52	39	32	27	38	31	26		37	31	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3063	3063	3063
5°	3075	3065	3060
10°	3069	3064	3059
15°	3056	3056	3061
20°	3045	3050	3055
25°	3017	3034	3051
30°	2989	3023	3047
35°	2950	3011	3054
40°	2923	2996	3055
45°	2874	2981	2995
50°	2815	2949	2870
55°	2732	2855	2758
60°	2598	2679	2598
65°	2452	2523	2404
70°	2202	2320	2172
75°	1894	2050	1856
80°	1485	1601	1339
85°	1044	929	812



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.7	3.3
10°-20°	309.5	9.6
20°-30°	470.2	14.6
30°-40°	571.2	17.8
40°-50°	596.6	18.5
50°-60°	530.6	16.5
60°-70°	387.2	12.0
70°-80°	202.0	6.3
80°-90°	41.7	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°	887.4	27.6
0°-40°	1458.6	45.3
0°-60°	2585.8	80.4
0°-90°	3216.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3216.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1138	1138	1138	1138	1138	
5°	1138	1131	1135	1133	1133	108
15°	1097	1091	1097	1099	1099	310
25°	1016	1012	1022	1024	1028	468
35°	898	898	917	922	930	563
45°	755	757	783	789	787	582
55°	582	594	609	592	588	519
65°	385	406	396	385	378	379
75°	182	199	197	184	178	194
85°	34	38	30	26	26	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1138.3	1138.3	1138.3	1138.3	1138.3
2.5°	1142.1	1134.6	1138.3	1136.4	1130.8
5°	1138.3	1130.8	1134.6	1132.7	1132.7
7.5°	1132.7	1125.2	1128.9	1127.1	1127.1
10°	1123.3	1115.8	1121.4	1119.5	1119.5
12.5°	1112.0	1104.5	1112.0	1110.1	1110.1
15°	1097.0	1091.4	1097.0	1098.9	1098.9
17.5°	1080.1	1076.3	1083.8	1083.8	1083.8
20°	1063.2	1057.6	1065.1	1065.1	1066.9
22.5°	1040.6	1035.0	1044.4	1042.5	1048.2
25°	1016.2	1012.5	1021.9	1023.7	1027.5
27.5°	989.9	988.0	999.3	1001.2	1005.0
30°	961.8	958.0	973.0	974.9	980.5
32.5°	931.7	931.7	944.8	948.6	956.1
35°	897.9	897.9	916.7	922.3	929.8
37.5°	866.0	866.0	884.7	894.1	899.8
40°	832.1	832.1	852.8	862.2	869.7
42.5°	792.7	794.6	819.0	828.4	832.1
45°	755.1	757.0	783.3	788.9	787.1
47.5°	713.8	719.4	745.7	742.0	736.3
50°	672.5	678.1	704.4	689.4	685.6
52.5°	627.4	636.8	659.3	638.7	636.8
55°	582.3	593.6	608.6	591.7	587.9
57.5°	535.4	550.4	554.1	542.9	539.1
60°	482.8	503.4	497.8	488.4	482.8
62.5°	433.9	452.7	445.2	435.8	430.2
65°	385.1	405.7	396.3	385.1	377.6
67.5°	332.5	356.9	345.6	332.5	326.8
70°	279.9	300.5	294.9	281.8	276.1
72.5°	229.2	248.0	246.1	232.9	227.3
75°	182.2	199.1	197.2	184.1	178.5
77.5°	137.1	154.0	148.4	137.1	131.5
80°	95.8	110.8	103.3	92.0	86.4
82.5°	62.0	69.5	62.0	52.6	48.8
85°	33.8	37.6	30.1	26.3	26.3
87.5°	11.3	13.1	13.1	13.1	13.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)