

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: P277337

Luminaire Tested: **22CZ2-34HE-S-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277337
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-23)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-34HE-S-UNV-L83050-W2A1-U-4000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3546.0 lumens
Efficiency: N/A
Efficacy: 135.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

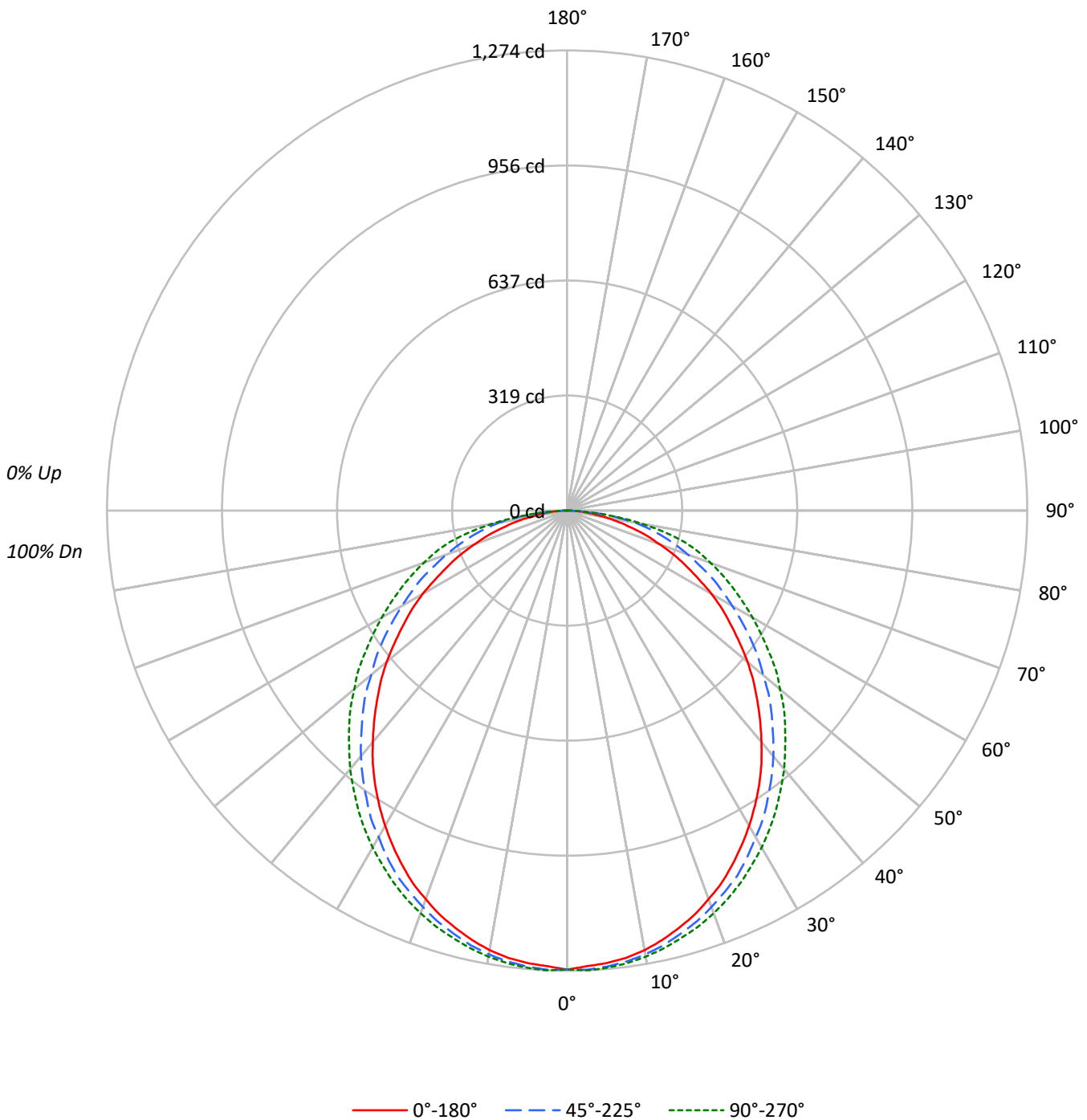
Input Watts (W): 26.226
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49					49			
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43					43			
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	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	30					30			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27					27			
10	53	40	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3419	3419	3419
5°	3397	3423	3432
10°	3377	3409	3427
15°	3333	3378	3411
20°	3279	3345	3397
25°	3213	3311	3375
30°	3131	3244	3347
35°	3044	3185	3315
40°	2941	3121	3284
45°	2833	3048	3249
50°	2729	2964	3221
55°	2601	2911	3198
60°	2484	2841	3188
65°	2318	2823	3224
70°	2135	2799	3319
75°	1927	2838	3492
80°	1666	2923	3282
85°	1380	2452	2452



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.2	3.4
10°-20°	342.0	9.6
20°-30°	511.7	14.4
30°-40°	605.9	17.1
40°-50°	617.5	17.4
50°-60°	553.5	15.6
60°-70°	433.3	12.2
70°-80°	279.4	7.9
80°-90°	82.5	2.3
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°	973.8	27.5
0°-40°	1579.7	44.5
0°-60°	2750.7	77.6
0°-90°	3546.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3546.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1271	1271	1271	1271	1271	
5°	1257	1261	1267	1269	1271	119
15°	1196	1203	1213	1223	1224	337
25°	1082	1092	1115	1130	1137	498
35°	926	938	970	999	1009	579
45°	744	761	801	842	854	575
55°	554	572	620	663	682	497
65°	364	386	443	486	506	362
75°	185	213	273	319	336	199
85°	45	61	79	79	79	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1270.6	1270.6	1270.6	1270.6	1270.6
2.5°	1262.4	1265.7	1272.3	1274.0	1274.0
5°	1257.4	1260.7	1267.3	1269.0	1270.6
7.5°	1249.1	1250.8	1259.1	1262.4	1264.0
10°	1235.9	1239.2	1247.5	1252.4	1254.1
12.5°	1217.7	1222.7	1232.6	1239.2	1240.9
15°	1196.2	1202.8	1212.7	1222.7	1224.3
17.5°	1173.0	1179.6	1192.9	1204.5	1207.8
20°	1144.9	1153.2	1168.1	1181.3	1186.3
22.5°	1116.8	1123.4	1141.6	1158.1	1163.1
25°	1082.0	1092.0	1115.1	1130.0	1136.6
27.5°	1045.6	1057.2	1080.4	1100.2	1106.8
30°	1007.6	1019.2	1044.0	1068.8	1077.1
32.5°	967.9	981.1	1010.9	1035.7	1044.0
35°	926.5	938.1	969.5	999.3	1009.2
37.5°	883.5	893.4	929.8	961.3	971.2
40°	837.2	850.4	888.5	924.9	934.8
42.5°	790.8	805.7	843.8	883.5	893.4
45°	744.5	761.1	800.8	842.1	853.7
47.5°	699.8	713.1	757.8	797.5	814.0
50°	651.9	665.1	708.1	752.8	769.3
52.5°	602.2	620.4	666.8	709.8	729.6
55°	554.3	572.5	620.4	663.4	681.6
57.5°	509.6	524.5	574.1	618.8	637.0
60°	461.6	474.8	527.8	575.8	592.3
62.5°	410.3	430.2	484.8	529.4	549.3
65°	364.0	385.5	443.4	486.4	506.3
67.5°	321.0	340.8	397.1	443.4	464.9
70°	271.3	297.8	355.7	402.0	421.9
72.5°	231.6	254.8	314.4	360.7	382.2
75°	185.3	213.4	273.0	319.3	335.9
77.5°	147.2	175.4	231.6	268.0	276.3
80°	107.5	135.7	188.6	206.8	211.8
82.5°	72.8	99.3	135.7	140.6	142.3
85°	44.7	61.2	79.4	79.4	79.4
87.5°	21.5	24.8	28.1	26.5	26.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)