

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: P276186

Luminaire Tested: **24CZ2-35HE-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276186
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-35HE-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2609.1 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

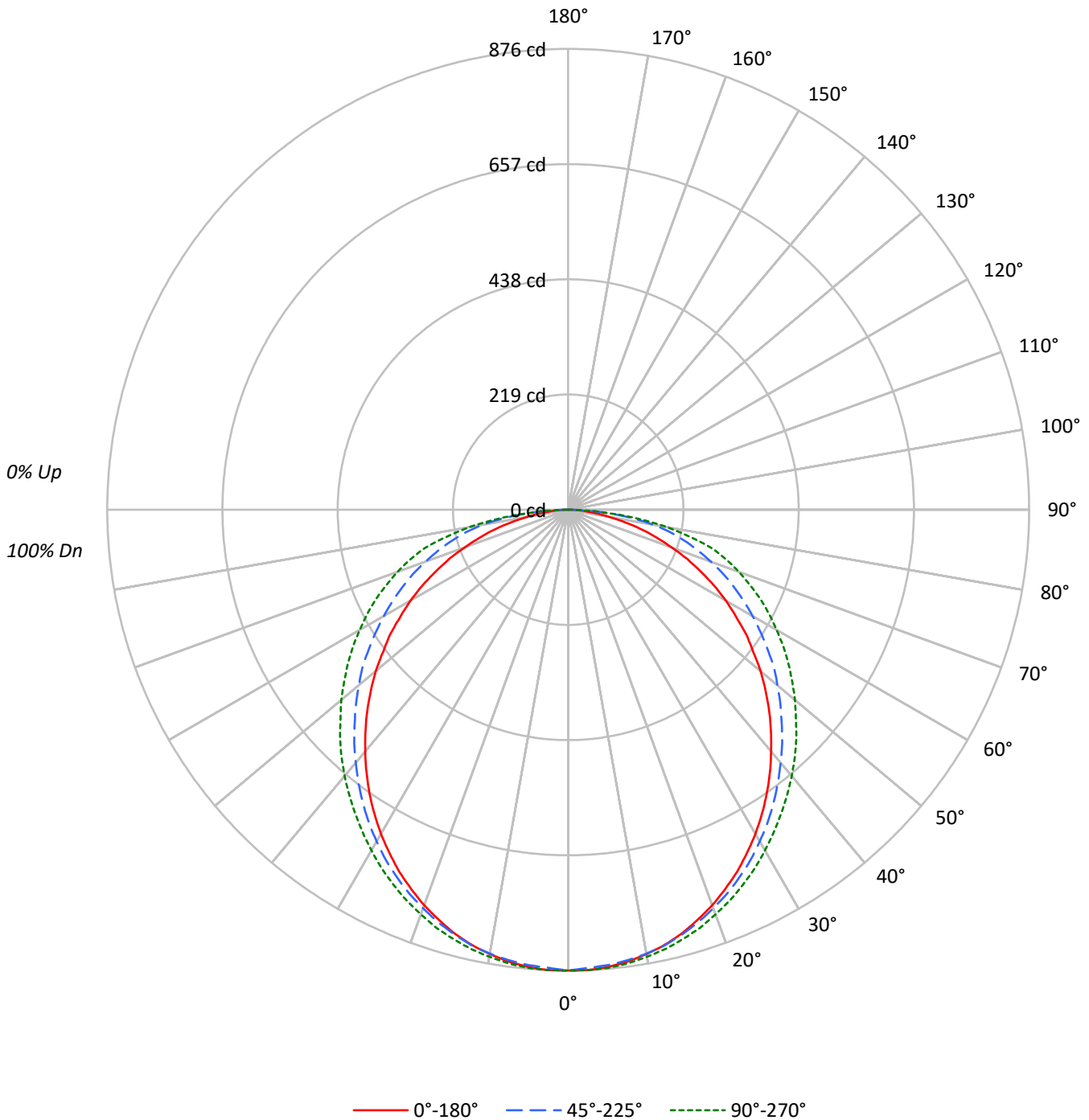
Input Watts (W): 24.087
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82					82			
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67					67			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58	56					56			
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48					48			
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41					41			
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36					36			
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32					32			
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28					28			
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25					25			
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1179	1179	1179
5°	1178	1174	1181
10°	1172	1171	1179
15°	1162	1164	1176
20°	1146	1154	1172
25°	1127	1144	1167
30°	1105	1131	1162
35°	1081	1117	1158
40°	1054	1103	1161
45°	1027	1092	1166
50°	999	1086	1177
55°	968	1085	1199
60°	930	1090	1230
65°	882	1106	1284
70°	819	1134	1356
75°	747	1190	1471
80°	614	1282	1471
85°	471	1183	1264



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.8	3.2
10°-20°	236.5	9.1
20°-30°	355.9	13.6
30°-40°	426.5	16.3
40°-50°	444.5	17.0
50°-60°	413.6	15.9
60°-70°	340.6	13.1
70°-80°	232.0	8.9
80°-90°	76.6	2.9
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°	675.3	25.9
0°-40°	1101.8	42.2
0°-60°	1959.9	75.1
0°-90°	2609.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2609.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	876	876	876	876	876	
5°	872	872	869	873	874	83
15°	834	835	836	844	845	235
25°	759	763	771	784	786	350
35°	658	666	680	698	705	412
45°	540	551	574	603	613	416
55°	413	427	462	499	511	368
65°	277	300	347	388	403	275
75°	144	176	229	270	283	152
85°	30	59	77	82	82	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	876.0	876.0	876.0	876.0	876.0
2.5°	876.0	876.0	871.6	876.0	876.0
5°	872.5	872.5	869.0	873.4	874.2
7.5°	866.4	867.3	863.8	869.0	869.9
10°	857.7	858.6	856.8	862.1	862.9
12.5°	847.3	848.1	848.1	854.2	855.1
15°	834.2	835.1	835.9	843.8	844.6
17.5°	817.6	820.3	822.0	831.6	833.3
20°	800.2	802.8	806.3	816.8	818.5
22.5°	780.2	783.7	789.8	801.1	803.7
25°	759.3	762.8	770.6	783.7	786.3
27.5°	735.8	741.0	750.6	764.5	768.0
30°	711.4	716.6	728.0	742.8	748.0
32.5°	685.3	692.3	705.3	721.9	727.1
35°	658.3	666.1	680.1	698.4	705.3
37.5°	629.6	638.3	654.8	674.8	683.5
40°	600.0	610.4	627.8	651.3	660.9
42.5°	570.3	579.9	601.7	626.9	637.4
45°	539.9	551.2	573.8	602.6	613.0
47.5°	508.5	519.8	546.8	577.3	586.9
50°	477.2	488.5	519.0	551.2	562.5
52.5°	443.2	458.0	492.9	525.1	536.4
55°	412.7	426.7	462.4	498.9	511.1
57.5°	377.9	394.5	433.6	472.0	485.0
60°	345.7	363.1	404.9	444.1	457.1
62.5°	312.6	331.8	376.2	416.2	431.0
65°	276.9	300.4	347.4	388.4	403.2
67.5°	244.7	269.1	318.7	360.5	373.6
70°	208.1	237.7	288.2	330.0	344.8
72.5°	176.8	206.4	259.5	300.4	315.2
75°	143.7	175.9	229.0	269.9	283.0
77.5°	110.6	146.3	199.4	230.8	235.1
80°	79.2	116.7	165.4	183.7	189.8
82.5°	55.7	89.7	121.9	134.1	137.6
85°	30.5	59.2	76.6	81.9	81.9
87.5°	13.1	25.3	30.5	31.3	32.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)