

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: P277551

Luminaire Tested: **22CZ2-20HE-RDP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277551
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-24)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-20HE-RDP-UNV-L82765-W2A1-U-4000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1345.0 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

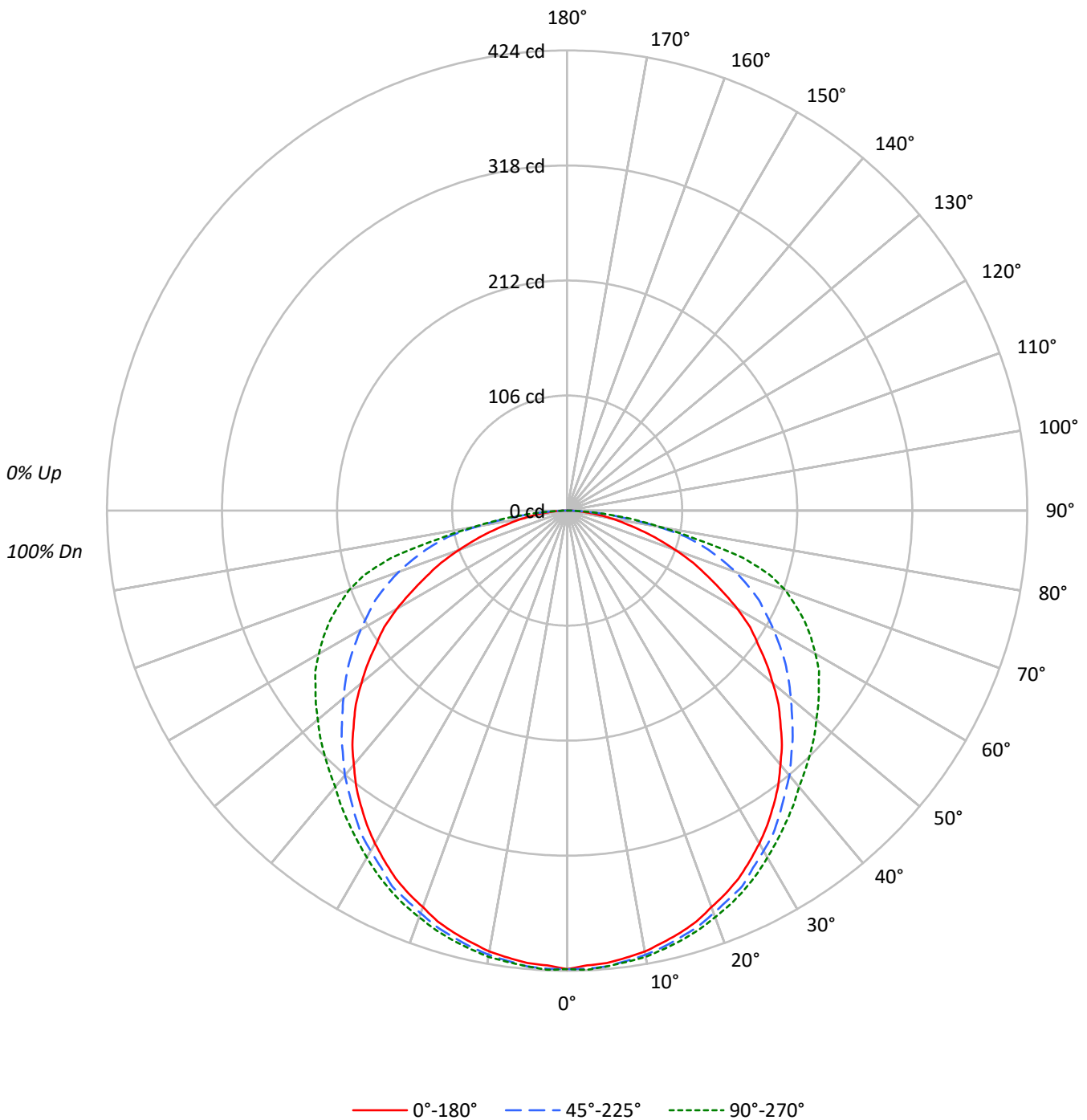
Input Watts (W): 15.717
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	92	89	92	89	86	88	86	84	82					82			
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67					67			
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55					55			
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47					47			
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40					40			
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35					35			
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31					31			
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27					27			
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24					24			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22					22			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1137	1137	1137
5°	1130	1139	1139
10°	1127	1136	1141
15°	1122	1133	1141
20°	1113	1131	1142
25°	1110	1134	1146
30°	1101	1125	1147
35°	1089	1122	1154
40°	1074	1119	1168
45°	1058	1118	1205
50°	1036	1127	1255
55°	1007	1151	1328
60°	975	1182	1422
65°	907	1241	1537
70°	833	1300	1681
75°	730	1368	1738
80°	629	1303	1365
85°	550	948	1037



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.0	3.0
10°-20°	114.7	8.5
20°-30°	175.1	13.0
30°-40°	213.8	15.9
40°-50°	228.6	17.0
50°-60°	220.6	16.4
60°-70°	189.9	14.1
70°-80°	128.5	9.6
80°-90°	33.9	2.5
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°	329.8	24.5
0°-40°	543.5	40.4
0°-60°	992.7	73.8
0°-90°	1345.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1345.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	422	422	422	422	422	
5°	418	420	422	422	422	40
15°	403	404	407	409	410	114
25°	374	376	382	384	386	172
35°	332	334	341	348	351	207
45°	278	283	294	309	317	215
55°	215	222	245	270	283	192
65°	142	156	195	226	241	142
75°	70	93	132	158	167	75
85°	18	25	31	32	34	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	422.5	422.5	422.5	422.5	422.5
2.5°	419.5	420.5	422.5	422.5	423.5
5°	418.5	419.5	421.5	421.5	421.5
7.5°	415.6	416.6	418.5	419.5	419.5
10°	412.6	413.6	415.6	416.6	417.5
12.5°	407.6	408.6	411.6	413.6	413.6
15°	402.7	403.7	406.7	408.6	409.6
17.5°	396.8	398.7	401.7	403.7	404.7
20°	388.8	390.8	394.8	397.8	398.7
22.5°	381.9	383.9	387.9	390.8	392.8
25°	374.0	376.0	381.9	383.9	385.9
27.5°	364.1	366.1	371.0	375.0	378.0
30°	354.2	356.2	362.1	367.1	369.1
32.5°	343.3	346.3	353.2	357.2	360.2
35°	331.5	334.4	341.4	348.3	351.2
37.5°	319.6	322.6	329.5	338.4	342.3
40°	305.7	309.7	318.6	330.5	332.4
42.5°	292.9	297.8	305.7	319.6	324.5
45°	278.0	283.0	293.9	308.7	316.6
47.5°	264.2	269.1	281.0	298.8	308.7
50°	247.4	254.3	269.1	289.9	299.8
52.5°	231.5	237.5	257.3	280.0	291.9
55°	214.7	221.6	245.4	270.1	283.0
57.5°	199.9	205.8	232.5	260.2	275.1
60°	181.1	189.0	219.7	249.3	264.2
62.5°	161.3	173.2	206.8	237.5	253.3
65°	142.5	156.3	194.9	225.6	241.4
67.5°	125.7	140.5	180.1	212.7	227.6
70°	105.9	124.7	165.2	196.9	213.7
72.5°	88.1	108.8	148.4	180.1	194.9
75°	70.2	93.0	131.6	158.3	167.2
77.5°	54.4	76.2	112.8	120.7	121.7
80°	40.6	60.4	84.1	85.1	88.1
82.5°	27.7	42.5	54.4	59.4	60.4
85°	17.8	24.7	30.7	31.7	33.6
87.5°	7.9	8.9	10.9	9.9	9.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)