

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: P277406

Luminaire Tested: **22CZ2-29HE-S-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277406
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: 22CZ2-29HE-S-UNV-L82765-W2A1-U-6500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2928.0 lumens
Efficiency: N/A
Efficacy: 134.5 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

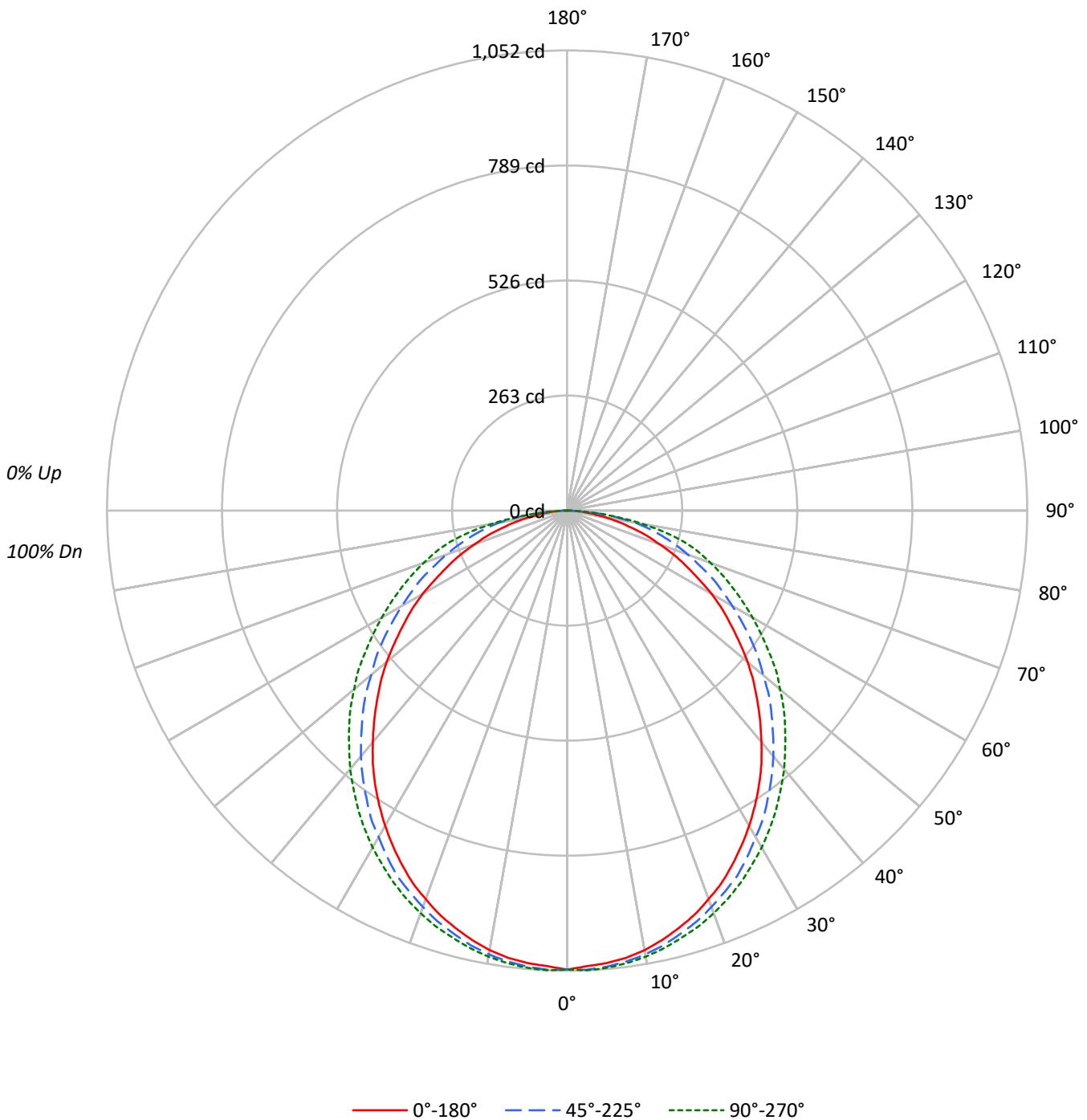
Input Watts (W): 21.762
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2823	2823	2823
5°	2805	2827	2834
10°	2789	2815	2829
15°	2752	2790	2816
20°	2707	2762	2805
25°	2653	2734	2787
30°	2585	2678	2764
35°	2513	2630	2737
40°	2428	2577	2712
45°	2340	2516	2683
50°	2254	2448	2660
55°	2147	2403	2640
60°	2052	2345	2632
65°	1914	2331	2662
70°	1762	2311	2741
75°	1591	2344	2883
80°	1376	2413	2710
85°	1139	2025	2025



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.2	3.4
10°-20°	282.4	9.6
20°-30°	422.5	14.4
30°-40°	500.3	17.1
40°-50°	509.9	17.4
50°-60°	457.0	15.6
60°-70°	357.8	12.2
70°-80°	230.7	7.9
80°-90°	68.2	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°	804.1	27.5
0°-40°	1304.4	44.5
0°-60°	2271.3	77.6
0°-90°	2928.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2928.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1049	1049	1049	1049	1049	
5°	1038	1041	1046	1048	1049	99
15°	988	993	1001	1010	1011	278
25°	894	902	921	933	938	411
35°	765	775	801	825	833	478
45°	615	628	661	695	705	475
55°	458	473	512	548	563	410
65°	301	318	366	402	418	299
75°	153	176	225	264	277	164
85°	37	50	66	66	66	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1049.2	1049.2	1049.2	1049.2	1049.2
2.5°	1042.4	1045.1	1050.6	1051.9	1051.9
5°	1038.3	1041.0	1046.5	1047.8	1049.2
7.5°	1031.4	1032.8	1039.6	1042.4	1043.7
10°	1020.5	1023.2	1030.1	1034.2	1035.5
12.5°	1005.5	1009.6	1017.8	1023.2	1024.6
15°	987.7	993.2	1001.4	1009.6	1010.9
17.5°	968.6	974.1	985.0	994.5	997.3
20°	945.4	952.2	964.5	975.4	979.5
22.5°	922.1	927.6	942.6	956.3	960.4
25°	893.5	901.7	920.8	933.1	938.5
27.5°	863.4	873.0	892.1	908.5	913.9
30°	832.0	841.5	862.0	882.5	889.4
32.5°	799.2	810.1	834.7	855.2	862.0
35°	765.0	774.6	800.6	825.1	833.3
37.5°	729.5	737.7	767.8	793.7	801.9
40°	691.3	702.2	733.6	763.7	771.9
42.5°	653.0	665.3	696.7	729.5	737.7
45°	614.8	628.4	661.2	695.4	704.9
47.5°	577.9	588.8	625.7	658.5	672.1
50°	538.3	549.2	584.7	621.6	635.3
52.5°	497.3	512.3	550.6	586.1	602.5
55°	457.7	472.7	512.3	547.8	562.8
57.5°	420.8	433.1	474.0	510.9	526.0
60°	381.2	392.1	435.8	475.4	489.1
62.5°	338.8	355.2	400.3	437.2	453.6
65°	300.6	318.3	366.1	401.6	418.0
67.5°	265.0	281.4	327.9	366.1	383.9
70°	224.0	245.9	293.7	332.0	348.4
72.5°	191.3	210.4	259.6	297.8	315.6
75°	153.0	176.2	225.4	263.7	277.3
77.5°	121.6	144.8	191.3	221.3	228.1
80°	88.8	112.0	155.7	170.8	174.9
82.5°	60.1	82.0	112.0	116.1	117.5
85°	36.9	50.5	65.6	65.6	65.6
87.5°	17.8	20.5	23.2	21.9	21.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)