

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: P277626

Luminaire Tested: **22CZ2-29HE-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277626
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: 22CZ2-29HE-RDP-UNV-L92765-W2A1-U-5500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1669.0 lumens
Efficiency: N/A
Efficacy: 78.0 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

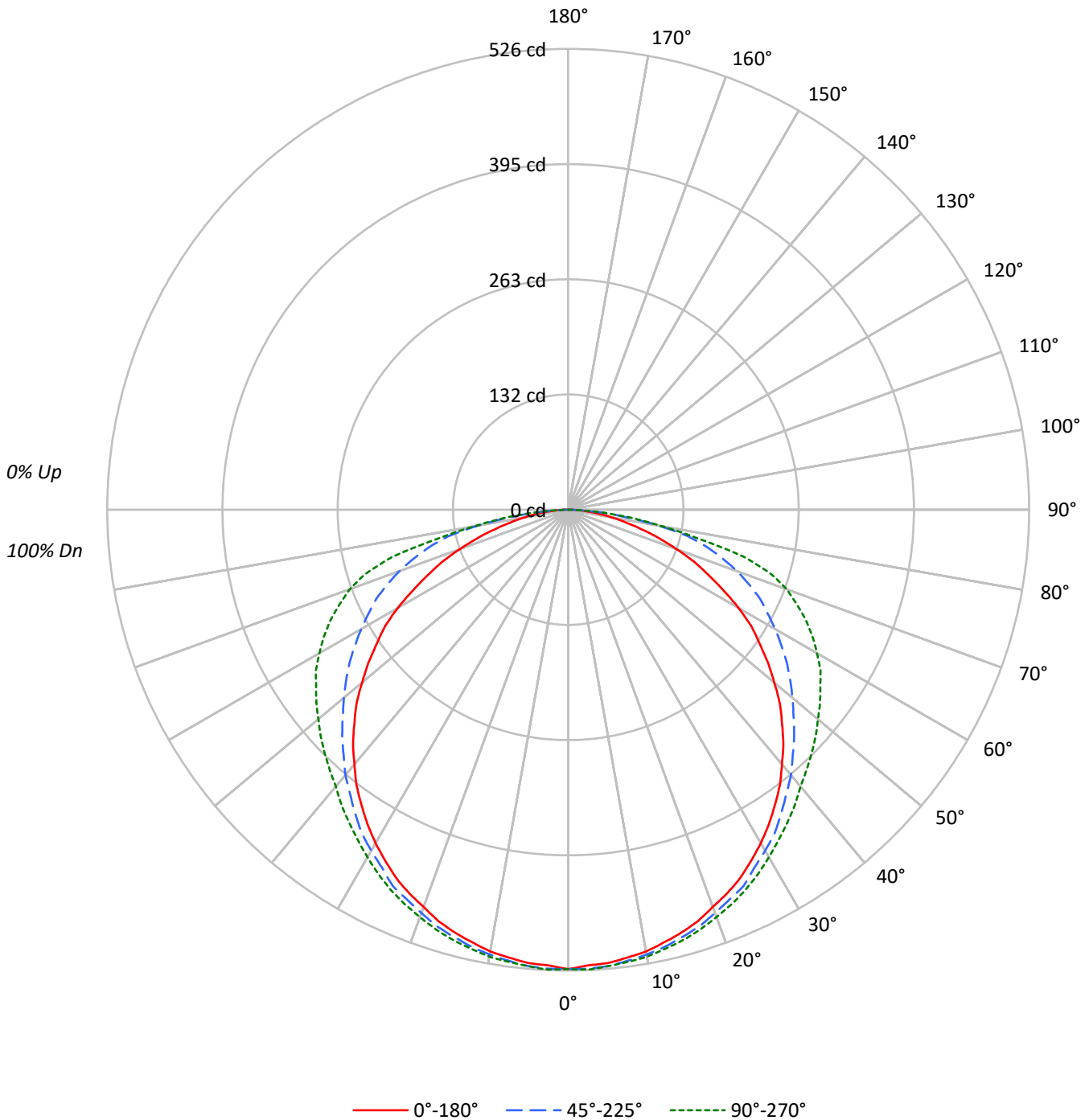
Input Watts (W): 21.39
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1411	1411	1411
5°	1403	1413	1413
10°	1399	1409	1416
15°	1392	1406	1416
20°	1382	1403	1417
25°	1378	1407	1422
30°	1366	1396	1423
35°	1351	1392	1432
40°	1333	1389	1449
45°	1313	1388	1495
50°	1285	1398	1557
55°	1250	1429	1647
60°	1209	1467	1764
65°	1126	1540	1908
70°	1034	1613	2087
75°	907	1698	2157
80°	779	1618	1694
85°	682	1176	1288



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.6	3.0
10°-20°	142.4	8.5
20°-30°	217.2	13.0
30°-40°	265.3	15.9
40°-50°	283.6	17.0
50°-60°	273.8	16.4
60°-70°	235.7	14.1
70°-80°	159.4	9.6
80°-90°	42.1	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°	409.2	24.5
0°-40°	674.5	40.4
0°-60°	1231.8	73.8
0°-90°	1669.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1669.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	524	524	524	524	524	
5°	519	521	523	523	523	49
15°	500	501	505	507	508	141
25°	464	467	474	476	479	214
35°	411	415	424	432	436	257
45°	345	351	365	383	393	266
55°	266	275	304	335	351	239
65°	177	194	242	280	300	176
75°	87	115	163	196	208	94
85°	22	31	38	39	42	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	524.3	524.3	524.3	524.3	524.3
2.5°	520.6	521.8	524.3	524.3	525.5
5°	519.4	520.6	523.0	523.0	523.0
7.5°	515.7	516.9	519.4	520.6	520.6
10°	512.0	513.2	515.7	516.9	518.1
12.5°	505.8	507.1	510.8	513.2	513.2
15°	499.7	500.9	504.6	507.1	508.3
17.5°	492.3	494.8	498.5	500.9	502.2
20°	482.5	485.0	489.9	493.6	494.8
22.5°	473.9	476.4	481.3	485.0	487.4
25°	464.1	466.6	473.9	476.4	478.8
27.5°	451.8	454.3	460.4	465.3	469.0
30°	439.5	442.0	449.4	455.5	458.0
32.5°	426.0	429.7	438.3	443.2	446.9
35°	411.3	415.0	423.6	432.2	435.9
37.5°	396.6	400.3	408.9	419.9	424.8
40°	379.4	384.3	395.3	410.1	412.5
42.5°	363.4	369.6	379.4	396.6	402.7
45°	345.0	351.1	364.7	383.1	392.9
47.5°	327.8	334.0	348.7	370.8	383.1
50°	306.9	315.5	334.0	359.7	372.0
52.5°	287.3	294.7	319.2	347.5	362.2
55°	266.4	275.0	304.5	335.2	351.1
57.5°	248.0	255.4	288.5	322.9	341.3
60°	224.7	234.5	272.6	309.4	327.8
62.5°	200.1	214.9	256.6	294.7	314.3
65°	176.8	194.0	241.9	279.9	299.6
67.5°	155.9	174.3	223.5	264.0	282.4
70°	131.4	154.7	205.0	244.3	265.2
72.5°	109.3	135.1	184.2	223.5	241.9
75°	87.2	115.4	163.3	196.4	207.5
77.5°	67.5	94.5	140.0	149.8	151.0
80°	50.3	74.9	104.4	105.6	109.3
82.5°	34.4	52.8	67.5	73.7	74.9
85°	22.1	30.7	38.1	39.3	41.7
87.5°	9.8	11.1	13.5	12.3	12.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)