

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: P276915

Luminaire Tested: **24CZ2-45HE-RDP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276915
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-19)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-45HE-RDP-UNV-L82765-W2A1-U-5500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2967.4 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

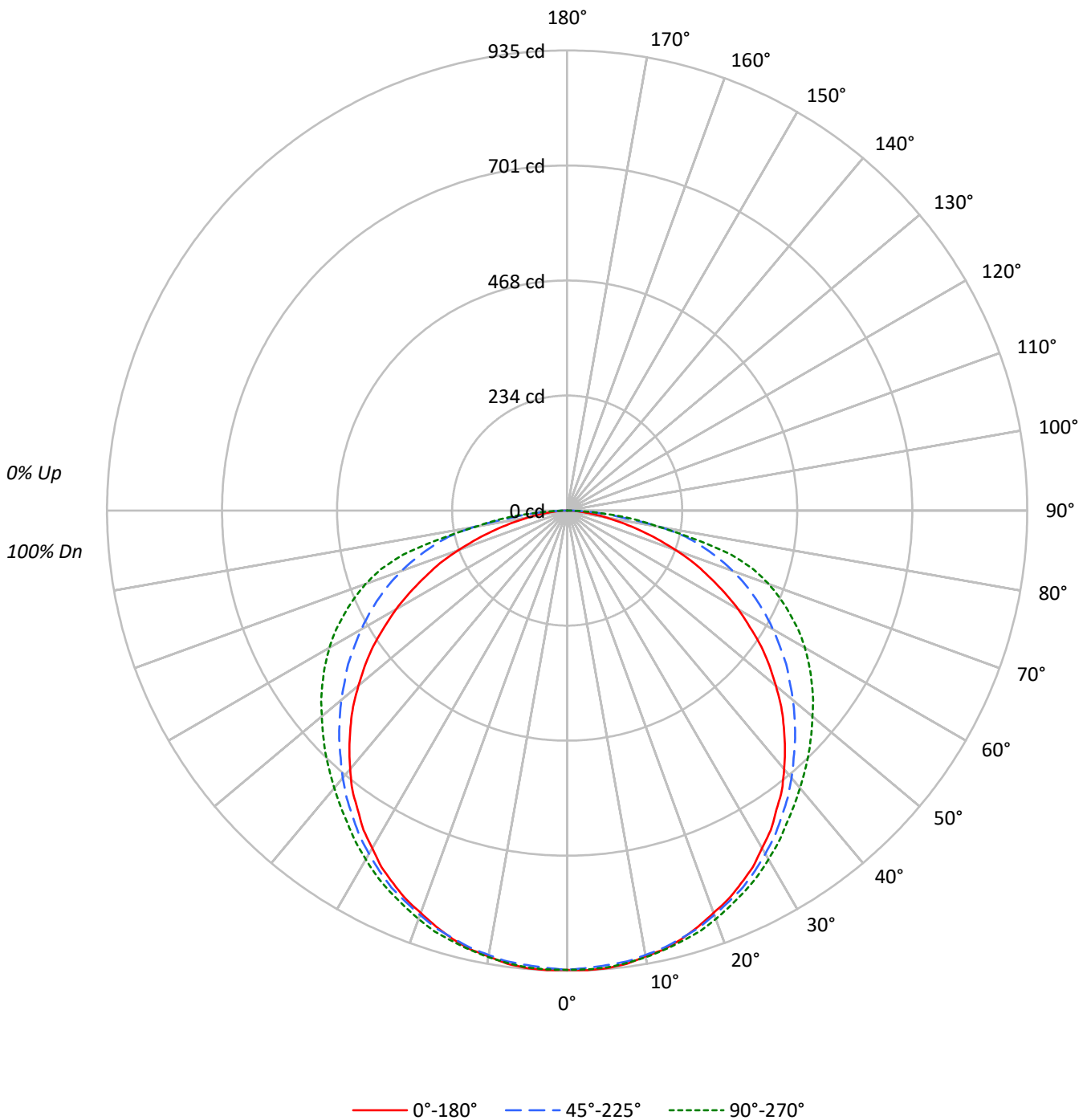
Input Watts (W): 32.271
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	89	92	89	87	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	76	68	61	72	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	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°	1256	1256	1256
5°	1260	1252	1258
10°	1257	1253	1259
15°	1255	1253	1261
20°	1246	1252	1264
25°	1241	1254	1267
30°	1230	1251	1271
35°	1218	1248	1277
40°	1205	1246	1293
45°	1185	1246	1322
50°	1158	1254	1362
55°	1129	1274	1422
60°	1081	1299	1501
65°	1012	1345	1593
70°	921	1407	1714
75°	780	1484	1790
80°	616	1494	1448
85°	454	1136	1272



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.5	3.0
10°-20°	254.8	8.6
20°-30°	389.6	13.1
30°-40°	476.3	16.0
40°-50°	507.6	17.1
50°-60°	485.3	16.4
60°-70°	411.1	13.9
70°-80°	276.3	9.3
80°-90°	77.9	2.6
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°	732.9	24.7
0°-40°	1209.1	40.7
0°-60°	2202.0	74.2
0°-90°	2967.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2967.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	933	933	933	933	933	
5°	933	932	927	932	932	89
15°	901	901	899	907	905	254
25°	836	839	845	852	854	385
35°	742	748	760	774	777	465
45°	623	633	655	683	695	480
55°	481	499	543	586	606	429
65°	318	350	422	478	500	316
75°	150	205	286	334	344	161
85°	29	60	74	80	82	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	933.2	933.2	933.2	933.2	933.2
2.5°	934.6	934.6	930.2	933.2	933.2
5°	933.2	931.7	927.3	931.7	931.7
7.5°	928.8	927.3	924.3	928.8	927.3
10°	919.9	919.9	917.0	921.4	921.4
12.5°	912.6	911.1	909.6	915.5	914.0
15°	900.8	900.8	899.3	906.7	905.2
17.5°	886.1	887.5	889.0	894.9	896.4
20°	869.9	872.8	874.3	883.1	883.1
22.5°	855.2	856.6	859.6	868.4	868.4
25°	836.0	839.0	844.9	852.2	853.7
27.5°	816.9	818.4	825.7	836.0	837.5
30°	791.9	796.3	805.1	816.9	818.4
32.5°	769.8	774.2	784.5	796.3	799.2
35°	741.8	747.7	759.5	774.2	777.2
37.5°	716.8	721.2	735.9	752.1	756.6
40°	685.9	694.7	709.4	728.6	735.9
42.5°	655.0	663.8	681.5	706.5	715.3
45°	622.6	632.9	655.0	683.0	694.7
47.5°	590.2	602.0	627.0	659.4	672.7
50°	553.4	568.1	599.1	635.9	650.6
52.5°	518.1	535.8	569.6	610.8	630.0
55°	481.3	499.0	543.1	585.8	606.4
57.5°	440.1	463.6	512.2	560.8	582.9
60°	401.8	423.9	482.8	535.8	557.8
62.5°	360.6	390.1	453.3	509.3	531.4
65°	317.9	350.3	422.4	478.4	500.4
67.5°	279.7	315.0	391.5	447.5	469.5
70°	234.0	278.2	357.7	413.6	435.7
72.5°	191.3	239.9	322.3	376.8	397.4
75°	150.1	204.6	285.5	334.1	344.4
77.5°	111.9	169.3	247.3	267.9	260.5
80°	79.5	135.4	192.8	182.5	186.9
82.5°	51.5	103.0	119.2	135.4	139.8
85°	29.4	60.3	73.6	79.5	82.4
87.5°	13.2	22.1	29.4	29.4	28.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)