

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: P277004

Luminaire Tested: **24CZ2-45-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277004
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: 24CZ2-45-RDP-UNV-L82765-W2A1-U-5000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2968.7 lumens
Efficiency: N/A
Efficacy: 82.9 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

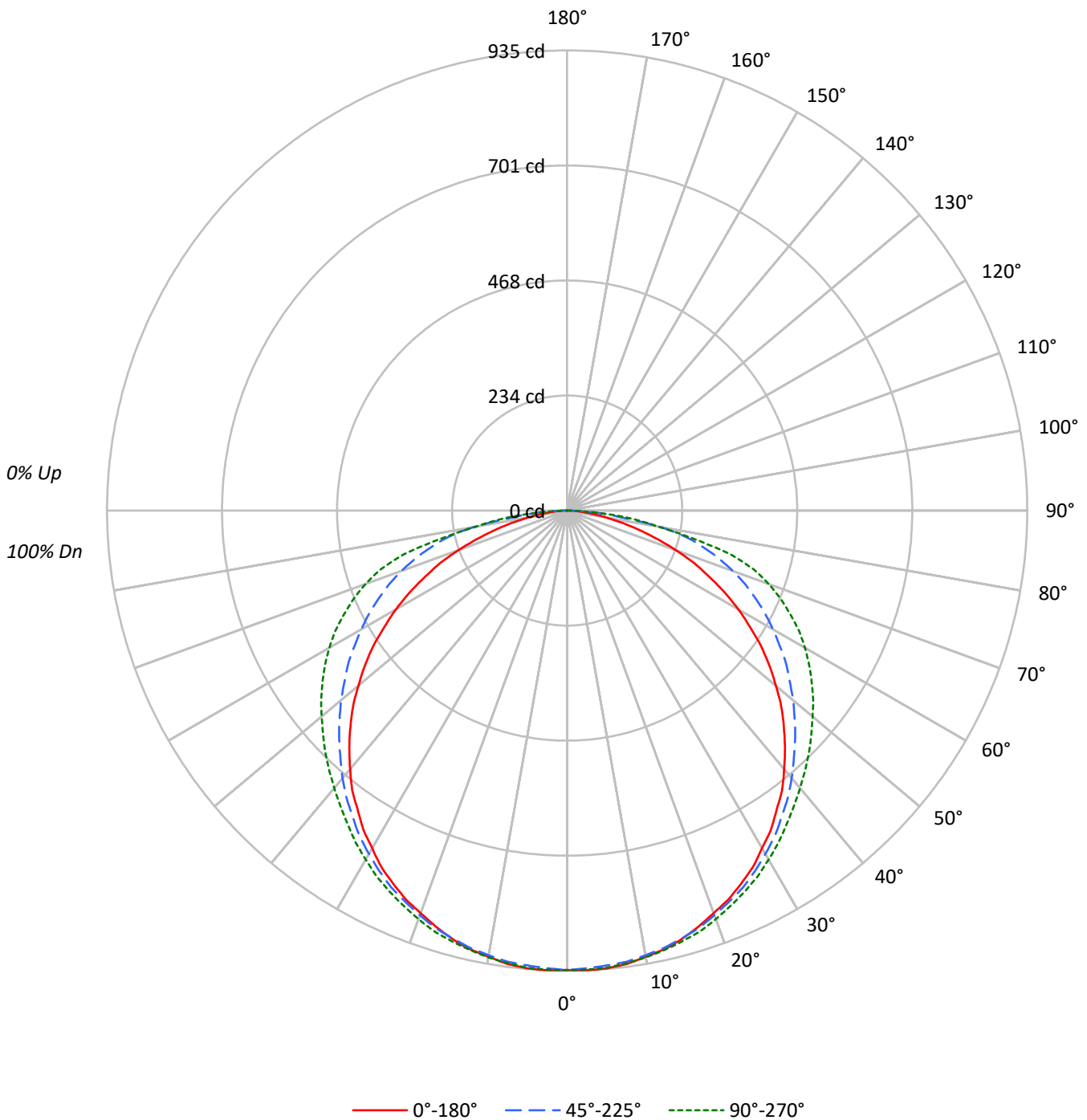
Input Watts (W): 35.805
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	67	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°	1261	1253	1259
10°	1257	1253	1259
15°	1255	1253	1261
20°	1246	1252	1265
25°	1242	1255	1268
30°	1231	1251	1272
35°	1219	1248	1277
40°	1205	1247	1293
45°	1185	1247	1322
50°	1159	1254	1362
55°	1129	1275	1423
60°	1082	1300	1502
65°	1013	1345	1594
70°	921	1408	1715
75°	781	1485	1791
80°	616	1495	1449
85°	455	1136	1274



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.6	3.0
10°-20°	254.9	8.6
20°-30°	389.8	13.1
30°-40°	476.5	16.0
40°-50°	507.8	17.1
50°-60°	485.5	16.4
60°-70°	411.3	13.9
70°-80°	276.4	9.3
80°-90°	78.0	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°	733.2	24.7
0°-40°	1209.6	40.7
0°-60°	2203.0	74.2
0°-90°	2968.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2968.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	934	934	934	934	934	
5°	934	932	928	932	932	89
15°	901	901	900	907	906	254
25°	836	839	845	853	854	385
35°	742	748	760	774	778	465
45°	623	633	655	683	695	480
55°	482	499	543	586	607	429
65°	318	350	423	479	501	316
75°	150	205	286	334	345	161
85°	30	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°	933.6	933.6	933.6	933.6	933.6
2.5°	935.0	935.0	930.6	933.6	933.6
5°	933.6	932.1	927.7	932.1	932.1
7.5°	929.2	927.7	924.7	929.2	927.7
10°	920.3	920.3	917.4	921.8	921.8
12.5°	913.0	911.5	910.0	915.9	914.4
15°	901.2	901.2	899.7	907.1	905.6
17.5°	886.5	887.9	889.4	895.3	896.8
20°	870.3	873.2	874.7	883.5	883.5
22.5°	855.5	857.0	860.0	868.8	868.8
25°	836.4	839.3	845.2	852.6	854.1
27.5°	817.2	818.7	826.1	836.4	837.9
30°	792.2	796.6	805.5	817.2	818.7
32.5°	770.1	774.5	784.9	796.6	799.6
35°	742.1	748.0	759.8	774.5	777.5
37.5°	717.1	721.5	736.3	752.5	756.9
40°	686.2	695.0	709.8	728.9	736.3
42.5°	655.3	664.1	681.8	706.8	715.6
45°	622.9	633.2	655.3	683.2	695.0
47.5°	590.5	602.3	627.3	659.7	672.9
50°	553.7	568.4	599.3	636.1	650.9
52.5°	518.3	536.0	569.9	611.1	630.2
55°	481.5	499.2	543.4	586.1	606.7
57.5°	440.3	463.8	512.4	561.0	583.1
60°	402.0	424.1	483.0	536.0	558.1
62.5°	360.8	390.2	453.5	509.5	531.6
65°	318.1	350.5	422.6	478.6	500.7
67.5°	279.8	315.1	391.7	447.6	469.7
70°	234.1	278.3	357.8	413.8	435.9
72.5°	191.4	240.0	322.5	377.0	397.6
75°	150.2	204.7	285.7	334.3	344.6
77.5°	111.9	169.3	247.4	268.0	260.6
80°	79.5	135.5	192.9	182.6	187.0
82.5°	51.5	103.1	119.3	135.5	139.9
85°	29.5	60.4	73.6	79.5	82.5
87.5°	13.3	22.1	29.5	29.5	28.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)