

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: P276763

Luminaire Tested: **24CZ2-60HE-RDP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276763
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: 24CZ2-60HE-RDP-UNV-L83050-W2A1-U-3500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3838.0 lumens
Efficiency: N/A
Efficacy: 86.7 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

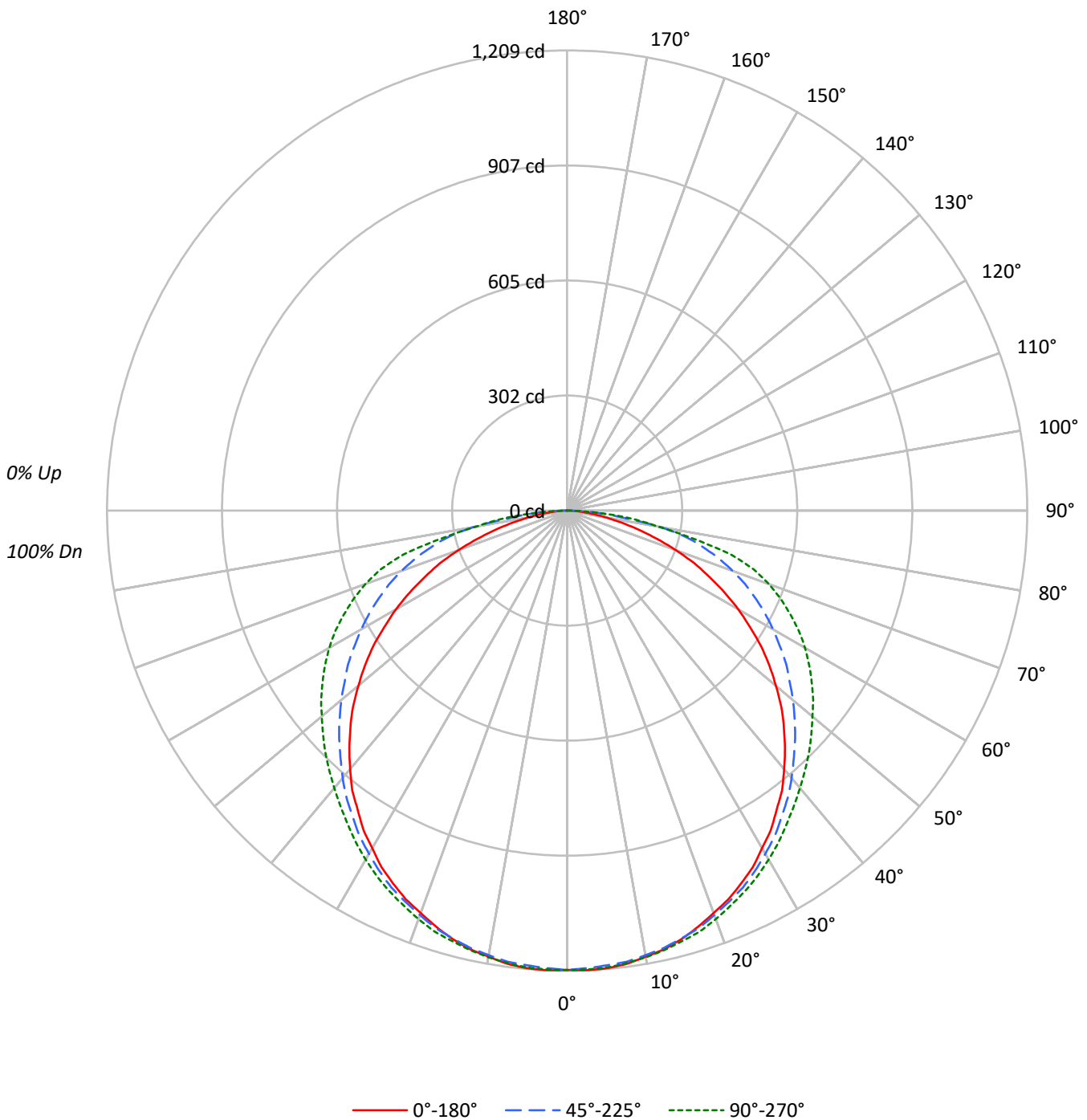
Input Watts (W): 44.268
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1624	1624	1624
5°	1630	1620	1628
10°	1626	1620	1628
15°	1623	1620	1631
20°	1611	1619	1635
25°	1605	1622	1639
30°	1591	1618	1645
35°	1576	1613	1651
40°	1558	1612	1672
45°	1532	1612	1710
50°	1498	1622	1761
55°	1460	1648	1840
60°	1399	1680	1942
65°	1309	1740	2061
70°	1191	1820	2217
75°	1010	1920	2316
80°	797	1932	1874
85°	588	1470	1646



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.5	3.0
10°-20°	329.5	8.6
20°-30°	503.9	13.1
30°-40°	616.0	16.0
40°-50°	656.5	17.1
50°-60°	627.7	16.4
60°-70°	531.8	13.9
70°-80°	357.4	9.3
80°-90°	100.8	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°	947.9	24.7
0°-40°	1563.8	40.7
0°-60°	2848.1	74.2
0°-90°	3838.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3838.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1207	1207	1207	1207	1207	
5°	1207	1205	1199	1205	1205	115
15°	1165	1165	1163	1173	1171	328
25°	1081	1085	1093	1102	1104	498
35°	960	967	982	1001	1005	601
45°	805	819	847	883	898	621
55°	622	645	702	758	784	554
65°	411	453	546	619	647	408
75°	194	265	369	432	446	208
85°	38	78	95	103	107	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1206.9	1206.9	1206.9	1206.9	1206.9
2.5°	1208.8	1208.8	1203.1	1206.9	1206.9
5°	1206.9	1205.0	1199.3	1205.0	1205.0
7.5°	1201.2	1199.3	1195.5	1201.2	1199.3
10°	1189.8	1189.8	1186.0	1191.7	1191.7
12.5°	1180.3	1178.4	1176.5	1184.1	1182.2
15°	1165.1	1165.1	1163.2	1172.7	1170.8
17.5°	1146.0	1147.9	1149.8	1157.4	1159.3
20°	1125.1	1128.9	1130.8	1142.2	1142.2
22.5°	1106.0	1107.9	1111.8	1123.2	1123.2
25°	1081.3	1085.1	1092.7	1102.2	1104.1
27.5°	1056.5	1058.5	1068.0	1081.3	1083.2
30°	1024.2	1029.9	1041.3	1056.5	1058.5
32.5°	995.6	1001.3	1014.7	1029.9	1033.7
35°	959.5	967.1	982.3	1001.3	1005.1
37.5°	927.1	932.8	951.8	972.8	978.5
40°	887.1	898.5	917.6	942.3	951.8
42.5°	847.1	858.6	881.4	913.8	925.2
45°	805.3	818.6	847.1	883.3	898.5
47.5°	763.4	778.6	811.0	852.9	870.0
50°	715.8	734.8	774.8	822.4	841.4
52.5°	670.1	692.9	736.7	790.0	814.8
55°	622.5	645.4	702.5	757.7	784.3
57.5°	569.2	599.7	662.5	725.3	753.9
60°	519.7	548.3	624.4	692.9	721.5
62.5°	466.4	504.5	586.3	658.7	687.2
65°	411.2	453.1	546.4	618.7	647.3
67.5°	361.7	407.4	506.4	578.7	607.3
70°	302.7	359.8	462.6	534.9	563.5
72.5°	247.5	310.3	416.9	487.3	514.0
75°	194.2	264.6	369.3	432.1	445.5
77.5°	144.7	218.9	319.8	346.5	337.0
80°	102.8	175.1	249.4	236.1	241.8
82.5°	66.6	133.3	154.2	175.1	180.9
85°	38.1	78.1	95.2	102.8	106.6
87.5°	17.1	28.6	38.1	38.1	36.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)