

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: P275898

Luminaire Tested: **24CZ2-35HE-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275898
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-35HE-UNV-L83050-W2A1-U-3500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3329.0 lumens
Efficiency: N/A
Efficacy: 137.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

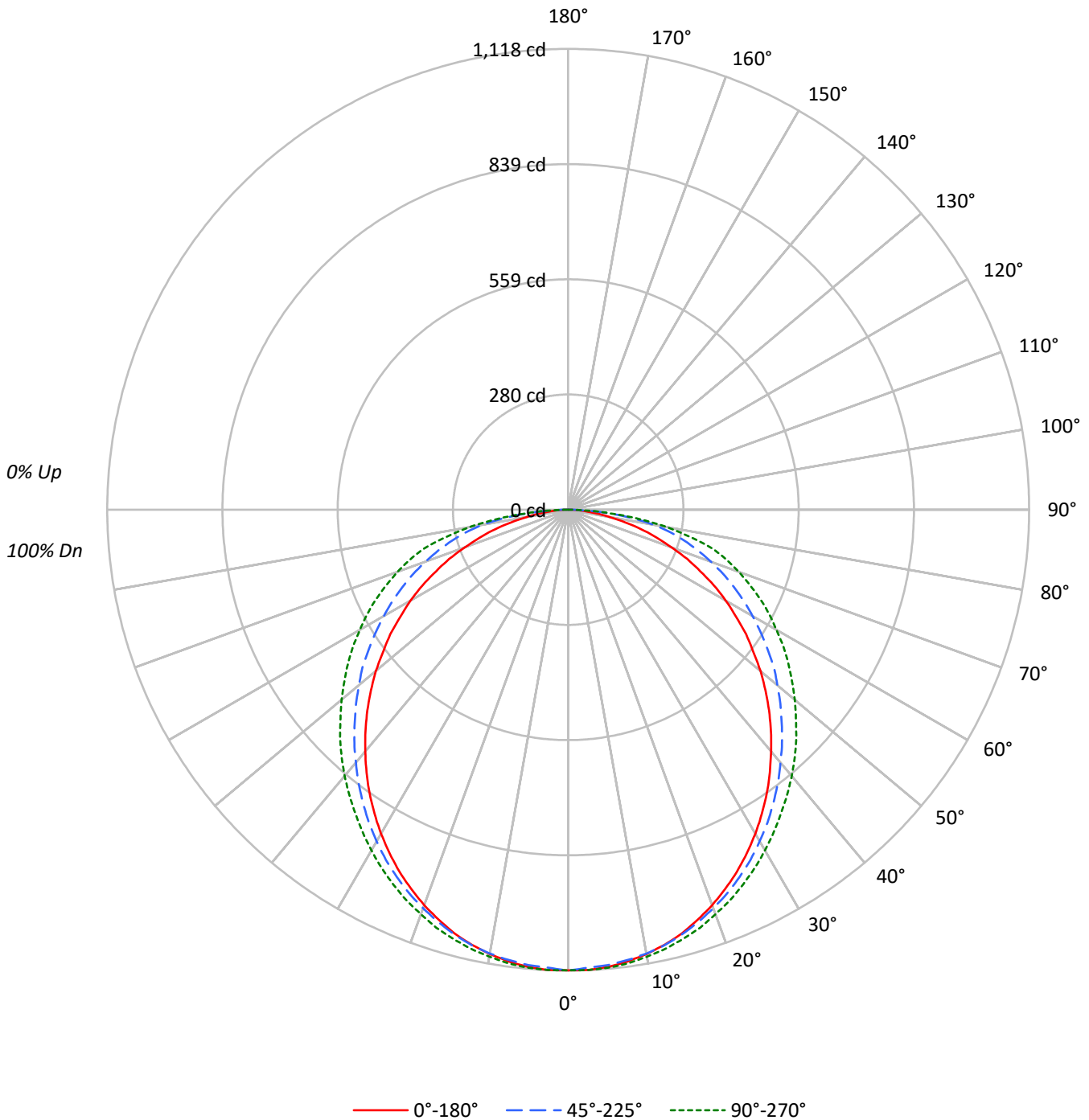
Input Watts (W): 24.18
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82					82			
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67					67			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58	56					56			
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48					48			
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41					41			
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36					36			
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32					32			
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28					28			
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25					25			
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1504	1504	1504
5°	1504	1498	1507
10°	1495	1494	1504
15°	1483	1486	1501
20°	1462	1473	1495
25°	1438	1460	1489
30°	1410	1443	1483
35°	1380	1425	1478
40°	1345	1407	1481
45°	1311	1393	1488
50°	1274	1386	1502
55°	1235	1384	1530
60°	1187	1390	1570
65°	1125	1411	1638
70°	1044	1447	1731
75°	953	1519	1877
80°	783	1636	1877
85°	601	1510	1612



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.7	3.2
10°-20°	301.8	9.1
20°-30°	454.1	13.6
30°-40°	544.2	16.3
40°-50°	567.1	17.0
50°-60°	527.7	15.9
60°-70°	434.6	13.1
70°-80°	296.0	8.9
80°-90°	97.7	2.9
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°	861.6	25.9
0°-40°	1405.9	42.2
0°-60°	2500.7	75.1
0°-90°	3329.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3329.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1118	1118	1118	1118	1118	
5°	1113	1113	1109	1114	1116	106
15°	1064	1066	1067	1077	1078	300
25°	969	973	983	1000	1003	446
35°	840	850	868	891	900	525
45°	689	703	732	769	782	531
55°	527	544	590	637	652	469
65°	353	383	443	496	514	351
75°	183	224	292	344	361	193
85°	39	76	98	104	104	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1117.7	1117.7	1117.7	1117.7	1117.7
2.5°	1117.7	1117.7	1112.1	1117.7	1117.7
5°	1113.3	1113.3	1108.8	1114.4	1115.5
7.5°	1105.5	1106.6	1102.1	1108.8	1109.9
10°	1094.4	1095.5	1093.3	1099.9	1101.0
12.5°	1081.0	1082.1	1082.1	1089.9	1091.0
15°	1064.4	1065.5	1066.6	1076.6	1077.7
17.5°	1043.3	1046.6	1048.8	1061.0	1063.3
20°	1021.0	1024.4	1028.8	1042.1	1044.4
22.5°	995.5	999.9	1007.7	1022.2	1025.5
25°	968.8	973.3	983.3	999.9	1003.3
27.5°	938.8	945.5	957.7	975.5	979.9
30°	907.7	914.4	928.8	947.7	954.4
32.5°	874.4	883.3	899.9	921.0	927.7
35°	839.9	849.9	867.7	891.0	899.9
37.5°	803.3	814.4	835.5	861.1	872.2
40°	765.5	778.8	801.1	831.1	843.3
42.5°	727.7	739.9	767.7	799.9	813.3
45°	688.8	703.3	732.2	768.8	782.2
47.5°	648.8	663.3	697.7	736.6	748.8
50°	608.8	623.3	662.2	703.3	717.7
52.5°	565.5	584.4	628.8	670.0	684.4
55°	526.6	544.4	590.0	636.6	652.2
57.5°	482.2	503.3	553.3	602.2	618.8
60°	441.1	463.3	516.6	566.6	583.3
62.5°	398.9	423.3	480.0	531.1	550.0
65°	353.3	383.3	443.3	495.5	514.4
67.5°	312.2	343.3	406.6	460.0	476.6
70°	265.5	303.3	367.8	421.1	440.0
72.5°	225.5	263.3	331.1	383.3	402.2
75°	183.3	224.4	292.2	344.4	361.1
77.5°	141.1	186.7	254.4	294.4	300.0
80°	101.1	148.9	211.1	234.4	242.2
82.5°	71.1	114.4	155.5	171.1	175.5
85°	38.9	75.6	97.8	104.4	104.4
87.5°	16.7	32.2	38.9	40.0	41.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)