

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: P261356

Luminaire Tested: **24CZ-LD5-35SE-S-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261356
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25694)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-35SE-S-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2843.0 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

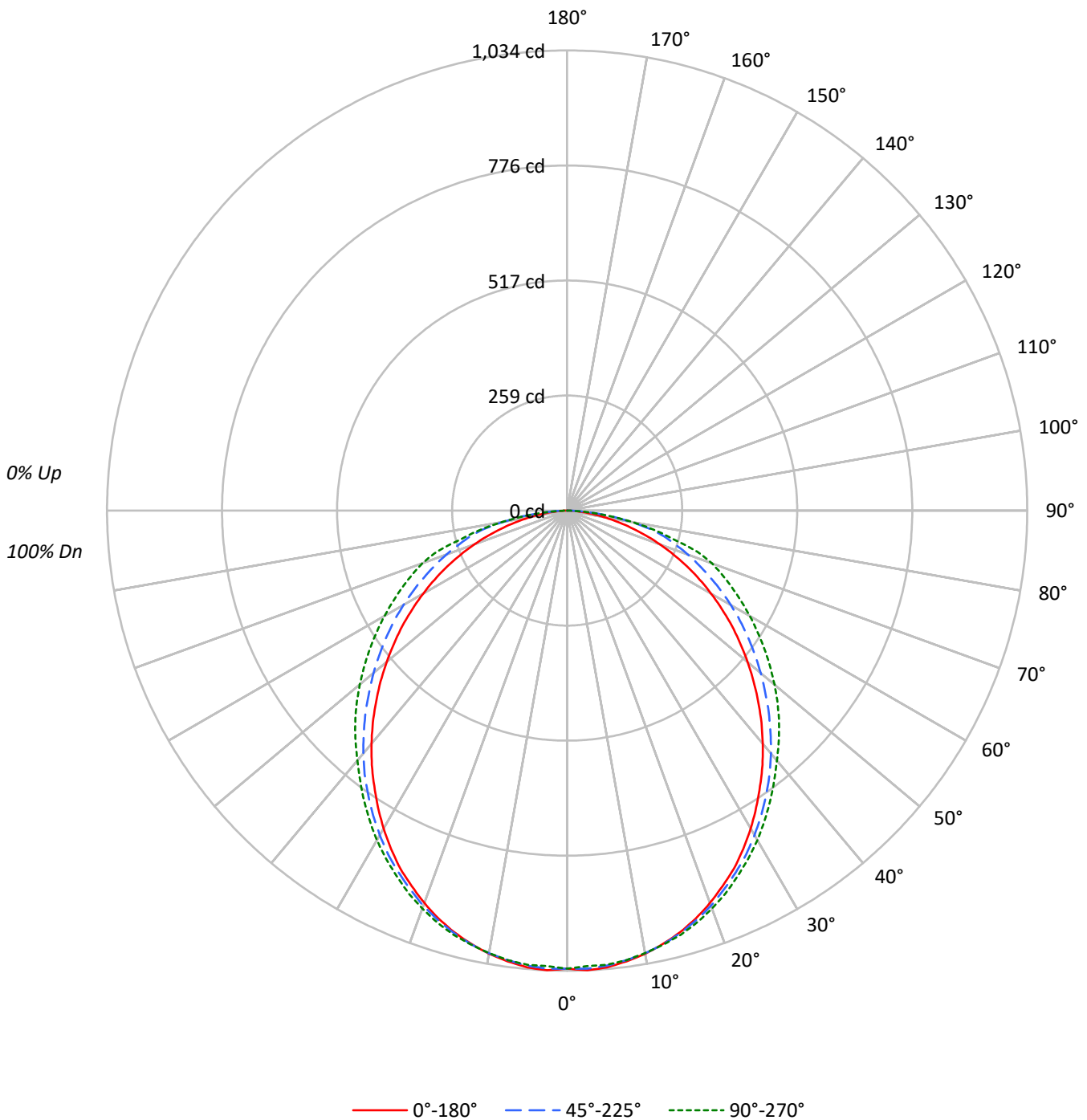
Input Watts (W): 25.947
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50					50			
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43					43			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38					38			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30					30			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27					27			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1385	1385	1385
5°	1391	1386	1384
10°	1382	1380	1379
15°	1366	1369	1374
20°	1344	1353	1363
25°	1317	1331	1345
30°	1282	1308	1329
35°	1241	1280	1307
40°	1201	1251	1288
45°	1156	1219	1282
50°	1109	1188	1273
55°	1061	1163	1269
60°	1006	1143	1275
65°	946	1129	1301
70°	871	1135	1362
75°	772	1175	1269
80°	645	1114	1144
85°	482	891	818



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.3	3.4
10°-20°	276.7	9.7
20°-30°	412.4	14.5
30°-40°	485.5	17.1
40°-50°	493.4	17.4
50°-60°	443.6	15.6
60°-70°	350.4	12.3
70°-80°	222.3	7.8
80°-90°	61.4	2.2
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°	786.5	27.7
0°-40°	1272.0	44.7
0°-60°	2208.9	77.7
0°-90°	2843.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2843.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1029	1029	1029	1029	1029	
5°	1030	1022	1026	1024	1024	98
15°	981	976	983	986	987	276
25°	887	886	897	902	906	408
35°	756	761	780	788	796	473
45°	607	616	640	659	674	469
55°	452	464	496	528	541	404
65°	297	312	355	394	409	294
75°	148	174	226	246	244	158
85°	31	54	58	53	53	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1029.2	1029.2	1029.2	1029.2	1029.2
2.5°	1033.9	1026.4	1030.2	1028.3	1024.5
5°	1030.2	1021.7	1026.4	1024.5	1024.5
7.5°	1021.7	1015.0	1018.8	1017.9	1018.8
10°	1011.2	1004.6	1010.3	1010.3	1009.4
12.5°	997.1	991.4	998.0	998.0	998.9
15°	981.0	976.2	982.9	985.7	986.6
17.5°	961.1	956.4	964.9	967.7	970.6
20°	938.4	936.5	945.0	947.9	951.6
22.5°	912.9	912.9	921.4	925.2	930.8
25°	887.3	886.4	896.8	902.5	906.2
27.5°	857.1	858.0	871.2	876.9	881.6
30°	824.9	826.8	841.9	848.5	855.2
32.5°	790.8	794.6	811.6	819.2	825.8
35°	755.8	760.6	779.5	788.0	795.6
37.5°	720.8	727.5	747.3	755.8	764.3
40°	683.9	689.6	712.3	722.7	733.1
42.5°	646.1	653.7	676.4	691.5	703.8
45°	607.3	615.8	640.4	659.3	673.5
47.5°	568.5	579.9	603.5	629.1	641.4
50°	529.7	541.1	567.6	596.0	608.3
52.5°	490.0	501.4	531.6	561.0	574.2
55°	452.2	463.5	495.7	527.9	541.1
57.5°	412.4	424.7	460.7	493.8	507.0
60°	373.7	386.0	424.7	459.7	473.9
62.5°	335.8	349.1	389.7	426.6	440.8
65°	297.0	312.2	354.7	393.5	408.7
67.5°	259.2	276.2	320.7	361.4	377.4
70°	221.4	241.2	288.5	330.1	346.2
72.5°	184.5	206.2	256.4	298.0	306.5
75°	148.5	174.1	226.1	246.0	244.1
77.5°	114.5	142.8	192.0	195.8	201.5
80°	83.2	114.5	143.8	151.4	147.6
82.5°	54.9	86.1	103.1	99.3	98.4
85°	31.2	53.9	57.7	53.0	53.0
87.5°	13.2	21.8	18.9	14.2	13.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)