

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: P260845

Luminaire Tested: **24CZ-LD5-30-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260845
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-30-UNV-L92765-W2A1-U-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2914.0 lumens
Efficiency: N/A
Efficacy: 141.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

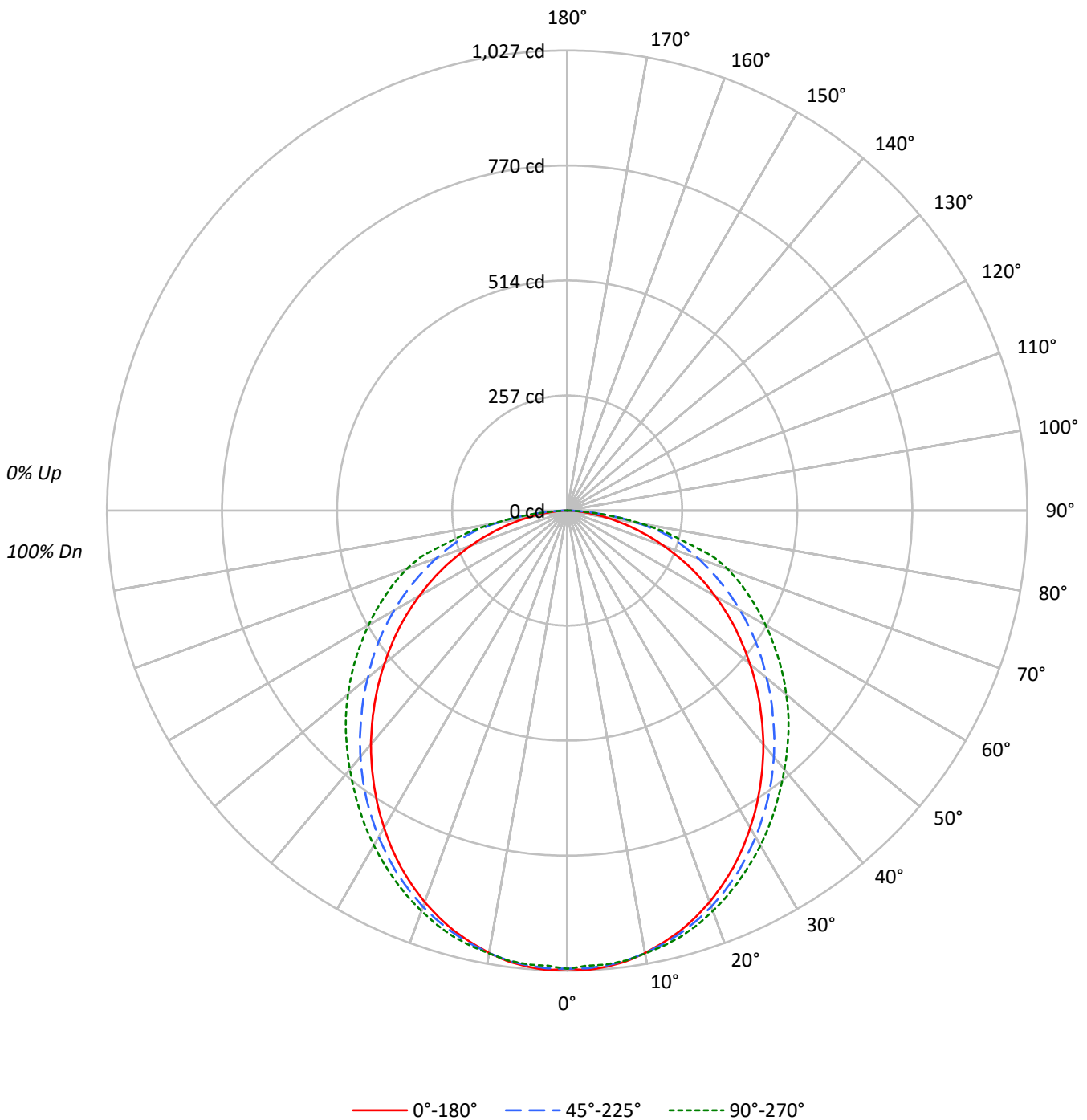
Input Watts (W): 20.553
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83					83			
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68					68			
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57					57			
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32					32			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1376	1376	1376
5°	1380	1376	1373
10°	1370	1370	1371
15°	1354	1361	1370
20°	1331	1347	1361
25°	1303	1329	1351
30°	1269	1307	1341
35°	1234	1285	1331
40°	1197	1260	1325
45°	1156	1236	1329
50°	1115	1216	1337
55°	1074	1208	1350
60°	1026	1200	1377
65°	972	1201	1423
70°	899	1221	1499
75°	804	1276	1426
80°	673	1221	1306
85°	508	940	894



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.6	3.3
10°-20°	275.0	9.4
20°-30°	411.2	14.1
30°-40°	487.8	16.7
40°-50°	502.1	17.2
50°-60°	460.6	15.8
60°-70°	372.4	12.8
70°-80°	241.7	8.3
80°-90°	66.7	2.3
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°	782.9	26.9
0°-40°	1270.6	43.6
0°-60°	2233.3	76.6
0°-90°	2914.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2914.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1023	1023	1023	1023	1023	
5°	1022	1015	1019	1018	1017	97
15°	972	968	977	981	984	274
25°	878	879	895	903	910	404
35°	751	757	782	799	810	470
45°	608	618	650	680	698	469
55°	458	472	515	557	576	409
65°	305	323	377	427	447	302
75°	155	184	245	274	274	164
85°	33	56	61	59	58	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1022.7	1022.7	1022.7	1022.7	1022.7
2.5°	1026.7	1018.7	1022.7	1021.7	1016.7
5°	1021.7	1014.7	1018.7	1017.7	1016.7
7.5°	1014.7	1007.7	1012.7	1011.7	1012.7
10°	1002.7	996.7	1002.7	1003.7	1003.7
12.5°	987.7	982.8	990.7	992.7	994.7
15°	971.8	967.8	976.8	980.8	983.8
17.5°	951.8	948.8	959.8	964.8	968.8
20°	929.9	928.9	940.8	945.8	950.8
22.5°	904.9	904.9	918.9	924.9	931.9
25°	878.0	879.0	895.0	902.9	909.9
27.5°	849.1	850.1	869.0	879.0	887.0
30°	817.1	821.1	841.1	854.0	863.0
32.5°	785.2	790.2	812.1	827.1	837.1
35°	751.3	757.3	782.2	799.2	810.1
37.5°	716.4	723.3	750.3	769.2	782.2
40°	681.4	689.4	717.4	739.3	754.3
42.5°	644.5	653.5	684.4	710.4	726.3
45°	607.6	617.6	649.5	680.4	698.4
47.5°	570.7	582.7	616.6	650.5	669.5
50°	532.8	544.8	580.7	619.6	638.5
52.5°	494.9	508.8	548.7	588.7	607.6
55°	458.0	471.9	514.8	556.7	575.7
57.5°	420.0	434.0	480.9	524.8	543.8
60°	381.1	397.1	446.0	490.9	511.8
62.5°	343.2	360.2	412.1	459.9	479.9
65°	305.3	323.3	377.1	427.0	447.0
67.5°	266.4	287.3	343.2	394.1	415.1
70°	228.5	251.4	310.3	361.2	381.1
72.5°	191.6	216.5	277.4	329.2	341.2
75°	154.6	183.6	245.4	274.4	274.4
77.5°	119.7	151.7	209.5	220.5	226.5
80°	86.8	121.7	157.6	170.6	168.6
82.5°	57.9	92.8	112.7	112.7	109.7
85°	32.9	55.9	60.9	58.9	57.9
87.5°	14.0	21.0	19.0	15.0	13.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)