

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: P260793

Luminaire Tested: **24CZ-LD5-30SE-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260793
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-LD5-30SE-UNV-L82765-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2863.0 lumens
Efficiency: N/A
Efficacy: 132.7 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

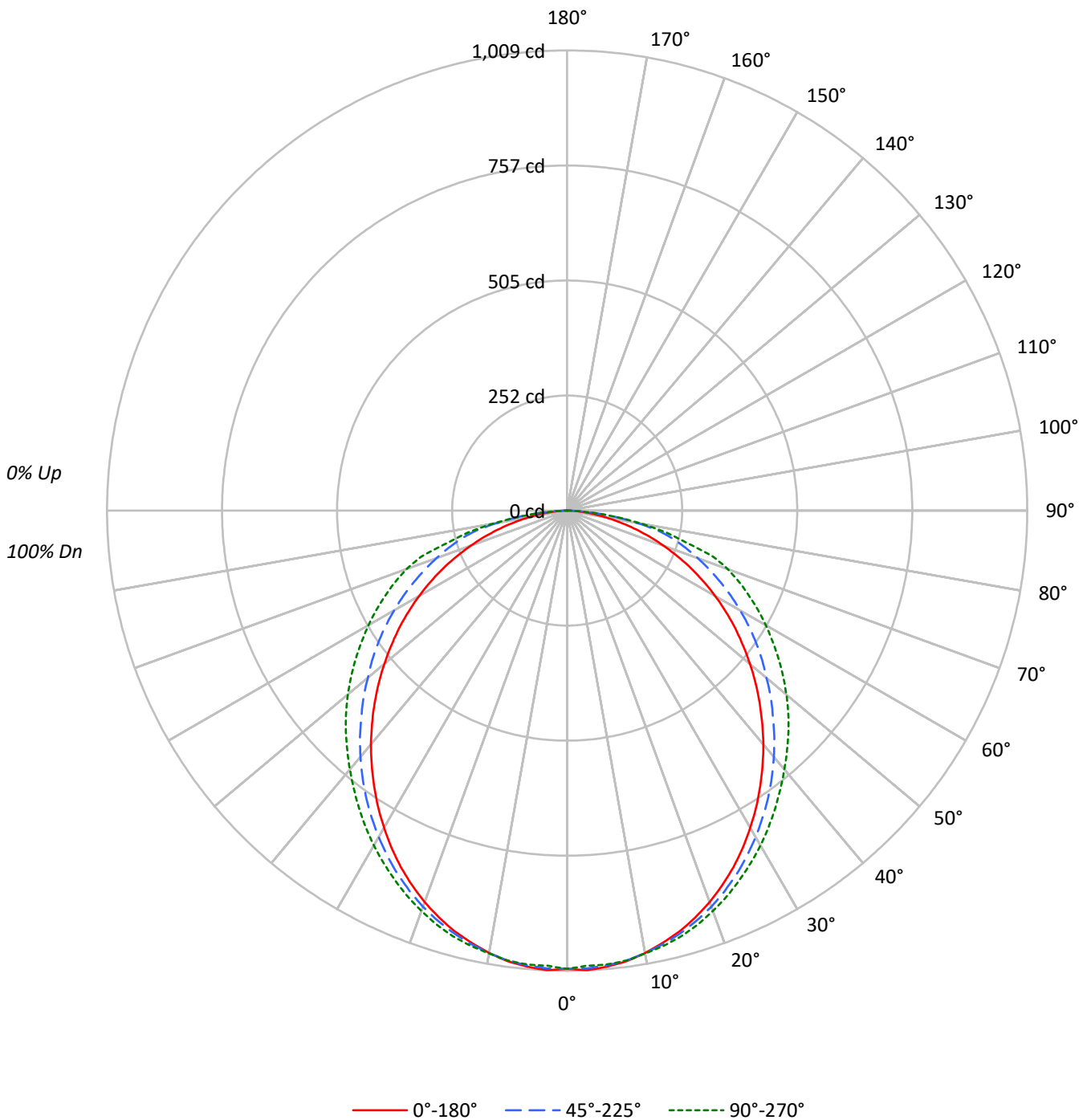
Input Watts (W): 21.576
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1352	1352	1352
5°	1356	1352	1349
10°	1346	1346	1347
15°	1330	1337	1346
20°	1308	1324	1338
25°	1281	1305	1327
30°	1247	1284	1317
35°	1212	1262	1307
40°	1176	1238	1302
45°	1136	1214	1306
50°	1096	1194	1313
55°	1055	1187	1327
60°	1008	1179	1353
65°	955	1180	1398
70°	883	1199	1473
75°	790	1253	1402
80°	661	1200	1284
85°	499	923	878



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.9	3.3
10°-20°	270.2	9.4
20°-30°	404.0	14.1
30°-40°	479.3	16.7
40°-50°	493.3	17.2
50°-60°	452.5	15.8
60°-70°	365.9	12.8
70°-80°	237.5	8.3
80°-90°	65.5	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°	769.2	26.9
0°-40°	1248.4	43.6
0°-60°	2194.2	76.6
0°-90°	2863.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2863.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1005	1005	1005	1005	1005	
5°	1004	997	1001	1000	999	95
15°	955	951	960	964	966	269
25°	863	864	879	887	894	397
35°	738	744	768	785	796	462
45°	597	607	638	668	686	461
55°	450	464	506	547	566	402
65°	300	318	370	420	439	296
75°	152	180	241	270	270	161
85°	32	55	60	58	57	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1004.8	1004.8	1004.8	1004.8	1004.8
2.5°	1008.7	1000.8	1004.8	1003.8	998.9
5°	1003.8	996.9	1000.8	999.9	998.9
7.5°	996.9	990.1	995.0	994.0	995.0
10°	985.2	979.3	985.2	986.1	986.1
12.5°	970.5	965.6	973.4	975.4	977.3
15°	954.8	950.8	959.7	963.6	966.5
17.5°	935.2	932.2	943.0	947.9	951.8
20°	913.6	912.6	924.4	929.3	934.2
22.5°	889.1	889.1	902.8	908.7	915.6
25°	862.6	863.6	879.3	887.1	894.0
27.5°	834.2	835.2	853.8	863.6	871.4
30°	802.8	806.8	826.4	839.1	847.9
32.5°	771.5	776.4	797.9	812.6	822.4
35°	738.1	744.0	768.5	785.2	796.0
37.5°	703.8	710.7	737.2	755.8	768.5
40°	669.5	677.4	704.8	726.4	741.1
42.5°	633.2	642.1	672.5	697.9	713.6
45°	597.0	606.8	638.1	668.5	686.2
47.5°	560.7	572.5	605.8	639.1	657.8
50°	523.5	535.2	570.5	608.7	627.4
52.5°	486.2	499.9	539.1	578.4	597.0
55°	449.9	463.7	505.8	547.0	565.6
57.5°	412.7	426.4	472.5	515.6	534.2
60°	374.5	390.1	438.2	482.3	502.9
62.5°	337.2	353.9	404.8	451.9	471.5
65°	300.0	317.6	370.5	419.6	439.2
67.5°	261.7	282.3	337.2	387.2	407.8
70°	224.5	247.0	304.9	354.9	374.5
72.5°	188.2	212.7	272.5	323.5	335.2
75°	151.9	180.4	241.1	269.6	269.6
77.5°	117.6	149.0	205.9	216.6	222.5
80°	85.3	119.6	154.9	167.6	165.7
82.5°	56.9	91.2	110.8	110.8	107.8
85°	32.3	54.9	59.8	57.8	56.9
87.5°	13.7	20.6	18.6	14.7	12.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)