

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: P#

Luminaire Tested: **24CZ-LD5-30-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25689)
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-L835-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

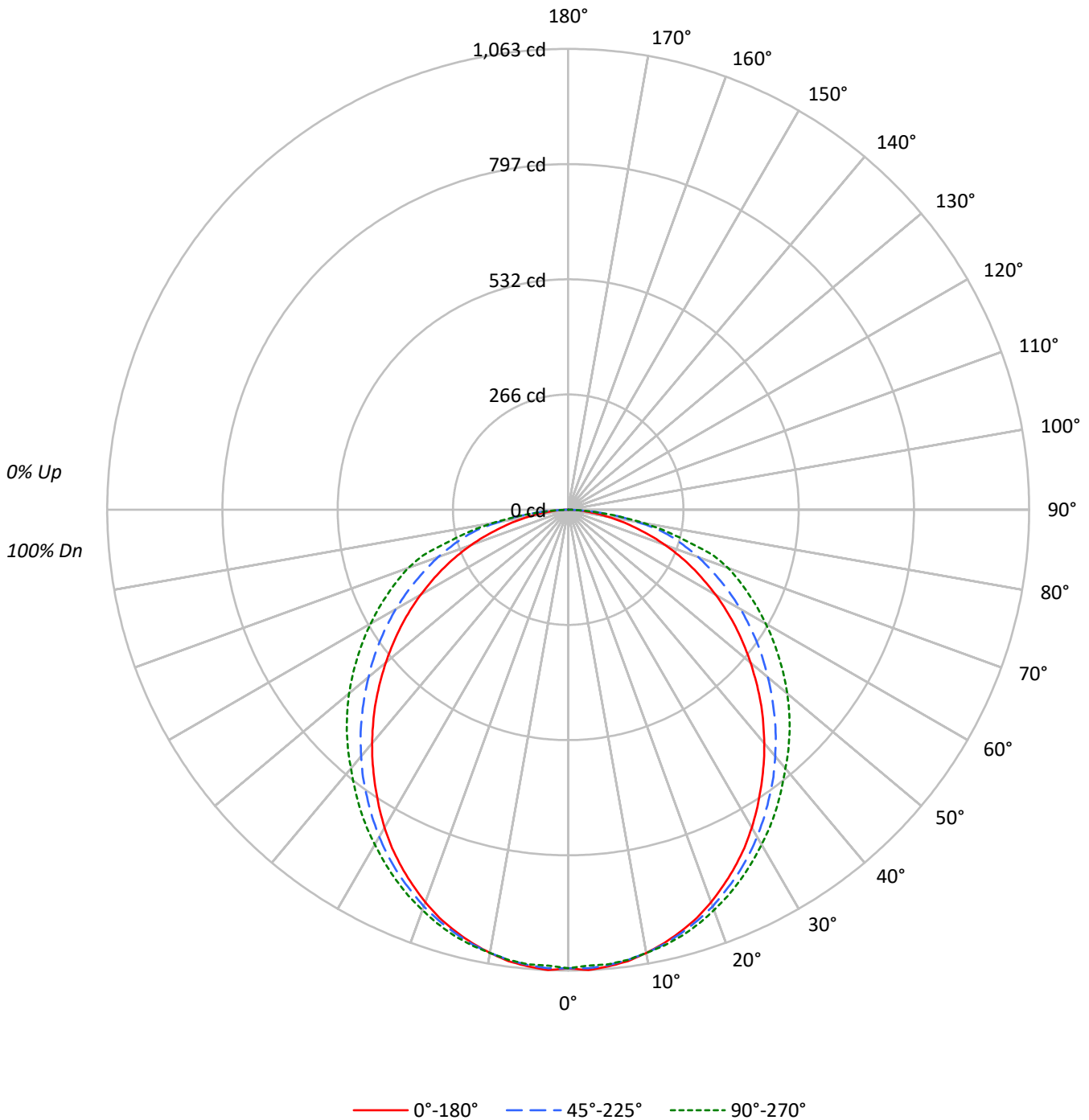
Lumens per Lamp: N/A
Luminaire Lumens: 3010.0 lumens
Efficiency: N/A
Efficacy: 139.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 21.62
Input Voltage (V): NR
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	96	88	81	76	84	79	74		81	76	72		78	74	71	68
3	89	79	70	63	87	77	69	63	74	67	62		71	65	61		69	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	33
8	60	46	38	32	58	45	37	32	44	37	31		43	36	31		42	36	31	29
9	56	42	34	28	55	42	34	28	41	33	28		40	33	28		39	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26		37	30	26		36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1423	1423	1423
5°	1425	1418	1415
10°	1412	1405	1406
15°	1393	1388	1398
20°	1367	1368	1382
25°	1334	1343	1365
30°	1297	1314	1347
35°	1253	1281	1331
40°	1210	1248	1313
45°	1165	1216	1308
50°	1116	1183	1303
55°	1067	1157	1298
60°	1014	1131	1303
65°	953	1107	1319
70°	875	1093	1357
75°	765	1089	1247
80°	626	958	1057
85°	430	620	603



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.0	3.3
10°-20°	284.7	9.5
20°-30°	425.6	14.1
30°-40°	504.6	16.8
40°-50°	519.0	17.2
50°-60°	474.7	15.8
60°-70°	382.9	12.7
70°-80°	248.6	8.3
80°-90°	70.0	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°	810.3	26.9
0°-40°	1314.9	43.7
0°-60°	2308.6	76.7
0°-90°	3010.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3010.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1058	1058	1058	1058	1058	
5°	1058	1051	1055	1053	1053	100
15°	1006	1001	1011	1015	1017	284
25°	909	909	927	934	941	419
35°	776	783	809	825	839	486
45°	628	639	673	704	722	484
55°	471	486	530	572	593	421
65°	315	334	387	437	459	312
75°	161	190	251	282	285	171
85°	36	59	64	64	61	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1057.7	1057.7	1057.7	1057.7	1057.7
2.5°	1062.9	1054.7	1058.8	1056.7	1052.6
5°	1057.7	1050.6	1054.7	1052.6	1052.6
7.5°	1050.6	1043.4	1047.5	1047.5	1047.5
10°	1038.3	1032.1	1038.3	1038.3	1038.3
12.5°	1024.0	1018.8	1026.0	1027.0	1029.1
15°	1006.5	1001.4	1010.6	1014.7	1016.8
17.5°	987.1	983.0	993.2	998.4	1001.4
20°	963.5	960.5	973.8	978.9	983.0
22.5°	936.9	936.9	950.2	956.4	963.5
25°	909.3	909.3	926.7	933.8	941.0
27.5°	879.6	880.6	900.1	910.3	917.5
30°	846.8	850.9	871.4	883.7	891.9
32.5°	812.0	817.1	840.7	856.0	866.3
35°	776.2	783.3	808.9	825.3	838.6
37.5°	740.3	749.5	777.2	795.6	808.9
40°	703.5	713.7	742.4	763.9	779.2
42.5°	665.6	676.8	708.6	733.2	751.6
45°	627.7	638.9	672.7	703.5	721.9
47.5°	587.7	601.1	636.9	672.7	691.2
50°	548.8	563.2	601.1	640.0	659.4
52.5°	509.9	526.3	566.2	607.2	626.7
55°	471.0	486.4	530.4	572.4	592.9
57.5°	432.1	448.5	494.6	538.6	560.1
60°	393.2	410.6	458.7	504.8	526.3
62.5°	353.3	371.7	422.9	471.0	492.5
65°	315.4	333.8	387.1	437.2	458.7
67.5°	276.5	296.9	352.2	403.4	426.0
70°	237.6	260.1	318.4	369.6	392.2
72.5°	198.6	224.2	283.6	334.8	351.2
75°	160.8	190.5	250.9	281.6	284.7
77.5°	125.9	156.7	214.0	226.3	232.4
80°	92.2	125.9	160.8	176.1	175.1
82.5°	61.4	96.3	115.7	117.8	115.7
85°	35.8	59.4	64.5	63.5	61.4
87.5°	15.4	23.6	20.5	17.4	14.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)