

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P147325

Luminaire Tested: **TLM-F01-LED-E1-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P147325
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33674)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TLM-F01-LED-E1-5MQ
Description: TALON MEDIUM LED SITE LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (7) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

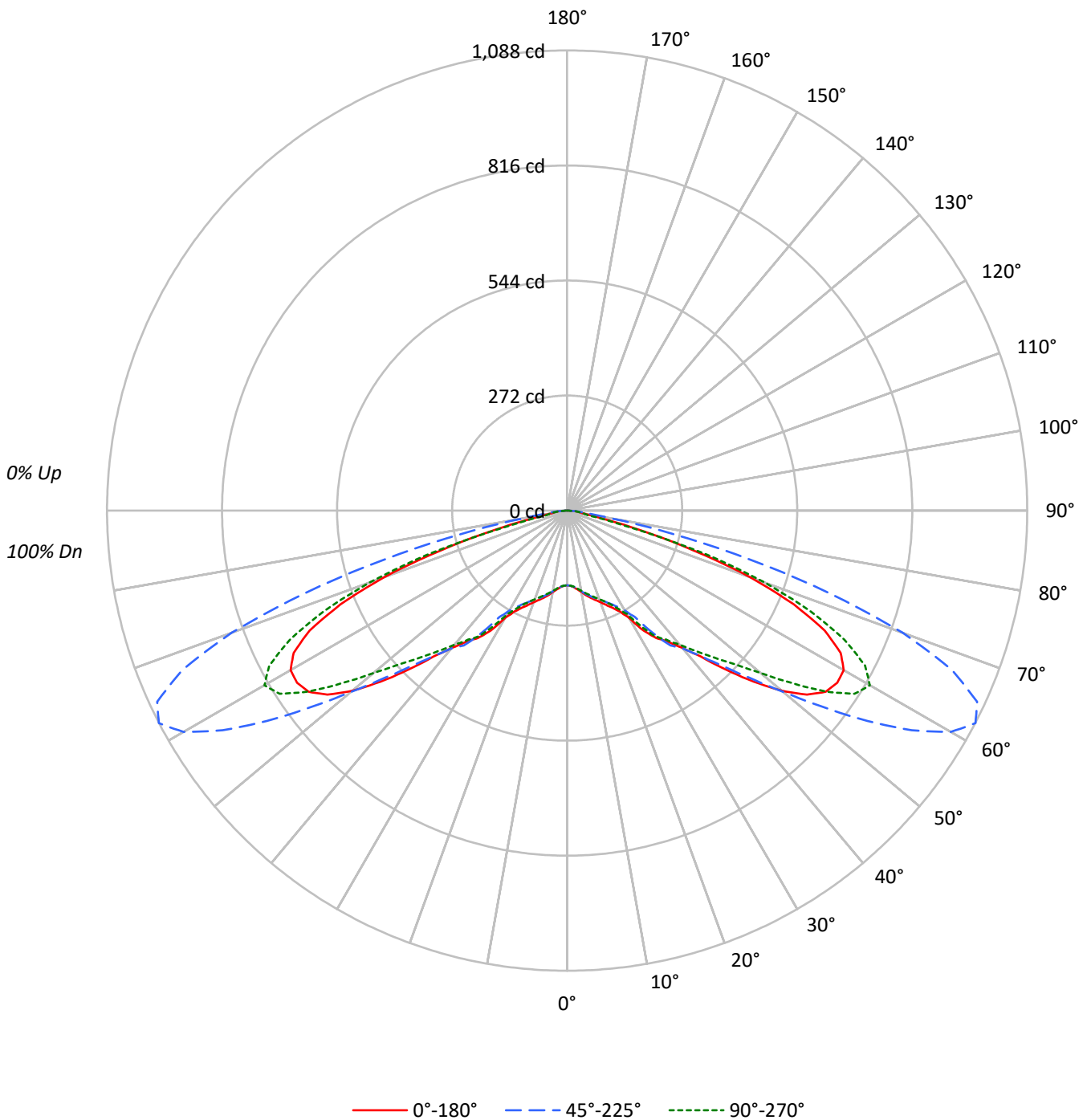
Lumens per Lamp: N/A
Luminaire Lumens: 2661.3 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 3.55 / 3.67 / 3.6
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 25.9
Input Voltage (V): NR
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	106	100	94	90	103	97	93	88	93	89	85	89	86	83	85	83	80	78
2	93	82	73	66	90	80	72	65	76	70	64	73	67	62	70	65	61	58
3	82	68	58	50	79	67	57	49	63	55	48	60	53	47	57	51	46	44
4	73	57	46	38	70	56	46	38	53	44	37	51	43	36	48	41	36	33
5	65	49	38	30	63	48	37	30	46	36	29	43	35	29	41	34	28	26
6	59	43	32	24	57	42	31	24	40	30	23	38	29	23	36	29	23	20
7	54	37	27	20	52	37	27	19	35	26	19	33	25	19	32	24	19	16
8	49	33	23	16	47	33	23	16	31	22	16	30	22	16	28	21	16	13
9	46	30	20	14	44	29	20	14	28	20	14	27	19	14	26	19	13	11
10	42	27	18	12	41	27	18	12	25	17	12	24	17	12	23	17	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11188	11188	11188
5°	11561	11498	11472
10°	12576	12447	12383
15°	13962	13700	13562
20°	15525	15147	15019
25°	17717	16991	17130
30°	21393	19960	20640
35°	28406	27363	28058
40°	35029	35128	34227
45°	47709	46366	44029
50°	65249	65594	58797
55°	82428	95752	82318
60°	95609	132561	104651
65°	100680	160249	108426
70°	85399	156210	91804
75°	43301	109647	37625
80°	13747	38067	13856
85°	14893	19760	15183



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.7	0.7
10°-20°	59.8	2.2
20°-30°	115.7	4.3
30°-40°	224.0	8.4
40°-50°	404.5	15.2
50°-60°	703.4	26.4
60°-70°	798.6	30.0
70°-80°	309.6	11.6
80°-90°	27.9	1.0
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°	193.3	7.3
0°-40°	417.3	15.7
0°-60°	1525.2	57.3
0°-90°	2661.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2661.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	177	177	177	177	177	
5°	182	182	181	181	180	18
15°	213	212	209	208	207	61
25°	254	248	243	244	245	119
35°	368	360	354	360	363	230
45°	533	521	518	498	492	417
55°	747	783	867	772	746	657
65°	672	772	1070	830	724	641
75°	177	248	448	234	154	214
85°	20	29	27	29	21	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	176.7	176.7	176.7	176.7	176.7	176.7	176.7	176.7	176.7	176.7	176.7
2.5°	177.8	178.3	178.2	177.9	177.9	177.9	177.8	177.4	177.2	177.5	177.8
5°	181.9	181.9	181.9	181.9	181.6	181.6	181.3	181.0	181.2	180.9	180.8
7.5°	188.2	187.8	187.8	187.7	187.6	187.4	187.0	186.5	186.6	186.4	186.3
10°	195.6	195.8	195.4	195.8	195.1	195.0	194.4	194.2	194.0	193.6	193.6
12.5°	204.6	204.2	204.2	203.9	203.6	203.4	202.6	202.4	201.8	201.5	201.2
15°	213.0	212.8	212.3	211.8	211.6	211.4	210.4	209.8	209.7	209.0	208.4
17.5°	221.4	221.1	220.4	220.2	219.6	219.2	218.4	217.5	217.2	216.8	216.2
20°	230.4	230.0	229.4	228.8	228.2	227.6	226.4	225.6	225.2	224.8	224.2
22.5°	241.5	240.9	239.8	238.8	237.4	236.8	235.1	234.2	233.5	233.0	232.6
25°	253.6	253.7	252.2	251.0	249.2	247.6	245.6	244.5	243.8	243.2	243.1
27.5°	268.7	268.8	267.4	265.7	262.9	261.3	258.6	257.2	256.8	256.2	256.0
30°	292.6	291.4	289.0	286.2	283.7	280.1	276.2	274.8	273.4	273.0	273.0
32.5°	336.7	336.0	334.0	326.9	323.6	316.2	309.2	305.2	300.6	298.4	297.0
35°	367.5	367.2	365.7	363.2	361.2	359.6	355.5	354.8	354.0	354.0	355.1
37.5°	390.2	388.5	388.2	388.7	388.2	388.4	391.8	396.2	400.1	402.0	401.8
40°	423.8	421.4	422.8	421.8	420.6	420.4	421.4	423.2	425.0	425.0	424.6
42.5°	467.7	468.8	469.3	465.3	462.7	462.0	464.6	464.0	465.9	465.2	463.4
45°	532.8	532.2	531.2	526.4	522.3	519.0	519.6	518.7	518.8	517.8	516.4
47.5°	598.7	601.0	597.0	594.7	590.0	587.6	589.6	587.9	591.0	585.3	582.6
50°	662.4	664.2	662.8	659.4	659.5	662.8	665.1	668.1	672.6	665.9	656.0
52.5°	714.8	716.2	718.2	721.0	727.7	734.8	744.6	755.2	763.7	762.3	751.1
55°	746.7	748.4	751.8	761.3	773.4	791.8	814.2	838.8	858.2	867.4	859.2
57.5°	757.4	758.6	768.0	779.4	798.2	825.6	863.2	905.8	942.8	966.3	962.6
60°	755.0	754.9	764.4	780.2	806.6	842.8	896.0	954.9	1011.6	1046.8	1041.6
62.5°	729.0	730.3	743.9	762.8	794.8	838.2	901.4	976.8	1044.6	1088.3	1084.0
65°	672.0	672.9	687.7	710.1	745.8	797.2	866.4	949.8	1027.5	1069.6	1061.6
67.5°	580.0	580.8	592.9	618.2	655.9	709.7	784.4	876.2	952.2	985.5	961.6
70°	461.3	464.1	471.8	498.6	527.2	579.9	648.7	740.5	812.3	843.8	817.4
72.5°	314.4	321.4	330.8	354.6	381.9	425.7	480.4	557.8	615.4	651.9	628.4
75°	177.0	187.0	189.9	207.9	230.5	265.0	305.0	360.5	418.7	448.2	420.0
77.5°	76.5	84.6	88.2	96.6	114.2	128.6	153.0	190.4	235.4	256.2	222.2
80°	37.7	39.7	41.2	43.8	48.7	53.4	65.0	81.3	99.8	104.4	83.1
82.5°	29.2	30.6	33.2	35.2	36.5	37.7	38.8	41.0	42.8	43.8	41.3
85°	20.5	22.2	25.2	27.5	28.9	29.8	30.8	31.5	29.8	27.2	28.6
87.5°	5.4	7.0	9.8	10.6	12.0	12.7	12.4	12.8	11.6	8.4	9.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	176.7	176.7	176.7	176.7	176.7	176.7	176.7	176.7
2.5°	177.6	177.5	177.6	177.6	177.6	177.5	177.4	177.5
5°	180.8	180.8	181.0	180.6	180.6	180.8	180.6	180.5
7.5°	186.2	186.0	186.0	185.9	186.0	185.9	185.8	185.7
10°	193.4	193.0	193.2	192.8	192.8	192.6	192.6	192.6
12.5°	201.0	200.6	200.8	200.4	199.6	199.8	200.0	199.8
15°	208.4	208.0	207.6	207.4	207.0	207.1	207.0	206.9
17.5°	216.0	215.2	215.0	214.6	214.5	214.5	214.5	214.6
20°	223.8	223.3	223.2	222.8	222.6	223.0	223.2	222.9
22.5°	232.2	232.0	232.2	232.0	232.4	232.6	232.8	232.5
25°	242.8	242.6	243.0	244.0	244.5	244.8	245.5	245.2
27.5°	256.4	256.2	257.2	258.6	259.4	260.8	261.4	261.7
30°	274.1	275.3	275.9	278.6	279.2	281.4	281.4	282.3
32.5°	299.6	302.0	306.2	310.4	316.4	320.5	320.6	322.8
35°	355.8	356.8	360.0	360.6	361.8	363.2	361.8	363.0
37.5°	398.9	394.6	391.6	387.3	384.7	384.7	385.0	384.7
40°	420.8	419.2	417.8	414.2	413.7	413.6	413.6	414.1
42.5°	460.2	456.2	454.0	451.0	450.0	449.8	449.6	449.9
45°	511.4	505.0	499.0	496.0	493.4	490.9	491.7	491.7
47.5°	571.0	561.0	551.3	546.1	541.6	539.4	538.1	537.7
50°	643.5	629.4	617.1	607.3	600.7	600.6	601.2	596.9
52.5°	732.4	710.2	694.8	681.6	675.4	674.8	672.6	670.1
55°	830.9	804.6	779.2	765.0	756.8	752.5	749.8	745.7
57.5°	932.4	897.0	860.4	837.8	823.4	813.6	808.4	806.0
60°	1010.7	962.4	914.2	877.6	853.8	839.2	830.0	826.4
62.5°	1041.5	976.0	914.1	866.2	831.8	811.5	799.2	793.9
65°	1004.8	927.2	856.8	804.0	765.6	742.8	729.5	723.7
67.5°	902.2	833.6	757.0	704.4	665.0	642.6	628.0	623.8
70°	756.3	686.3	613.1	566.2	531.0	512.6	497.6	495.9
72.5°	568.3	508.0	445.2	406.5	378.1	347.8	340.1	344.0
75°	364.3	307.8	251.9	217.0	191.2	162.2	151.0	153.8
77.5°	172.6	133.6	96.4	74.6	62.6	53.5	51.2	49.8
80°	64.0	51.8	45.8	43.5	41.8	40.3	39.2	38.0
82.5°	41.4	40.4	39.2	38.8	37.6	35.6	32.0	30.5
85°	31.0	31.0	29.3	29.4	28.4	26.0	22.7	20.9
87.5°	9.1	8.1	7.4	6.8	6.8	6.0	4.4	3.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)