

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: P147323

Luminaire Tested: **TLM-F01-LED-E1-5MQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P147323
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-8030
Description: TALON MEDIUM LED SITE LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (7) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

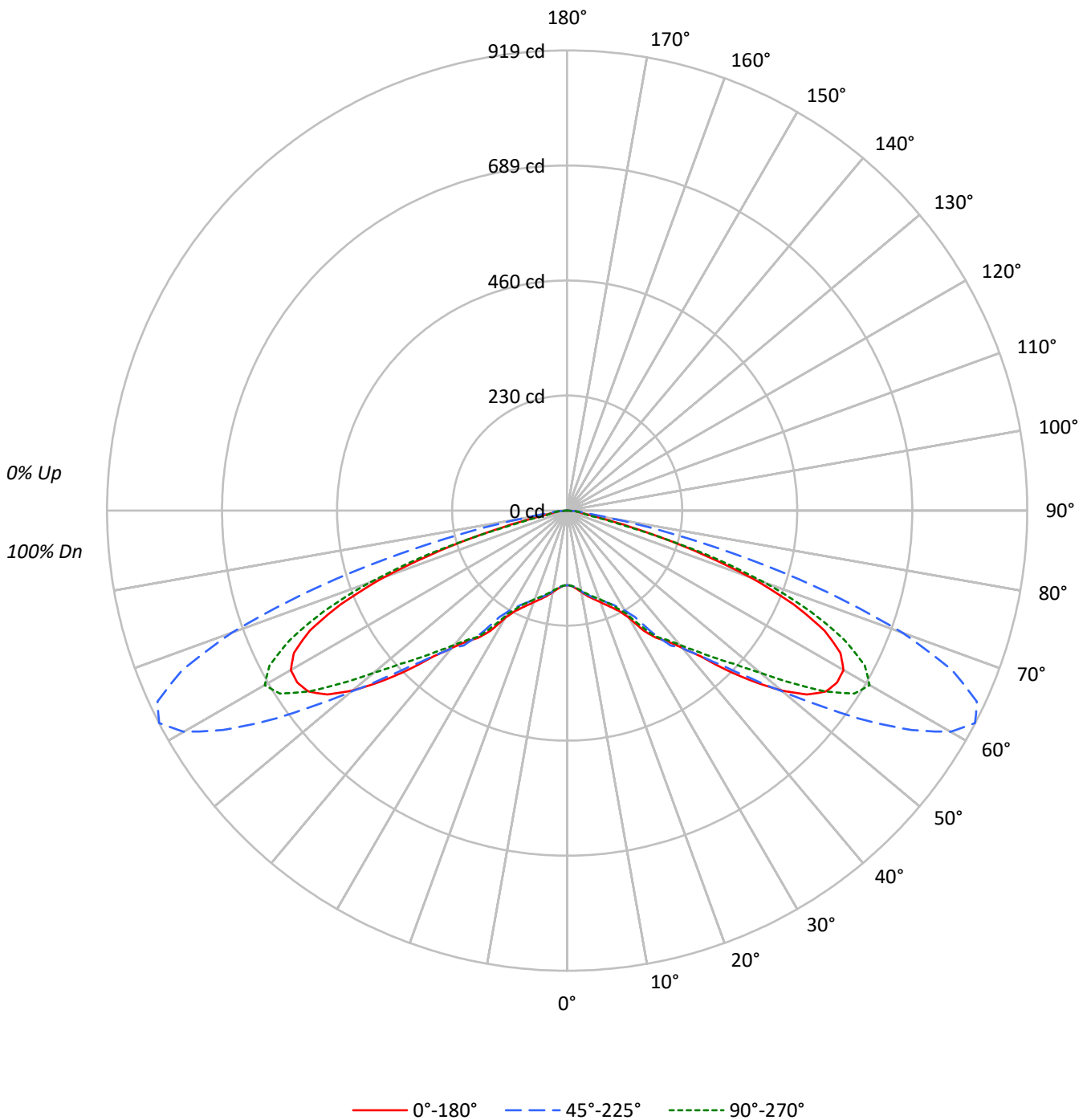
Lumens per Lamp: N/A
Luminaire Lumens: 2246.1 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Spacing Criteria (0/90/45): 3.55 / 3.67 / 3.6
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 25.9
Input Voltage (V): NR
Input Current (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	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°	9441	9441	9441
5°	9756	9705	9686
10°	10615	10506	10454
15°	11786	11563	11445
20°	13099	12782	12674
25°	14951	14343	14455
30°	18059	16845	17423
35°	23977	23096	23676
40°	29557	29648	28888
45°	40277	39131	37161
50°	55083	55359	49616
55°	69568	80828	69480
60°	80691	111881	88315
65°	84979	135244	91511
70°	72088	131847	77476
75°	36549	92571	31754
80°	11595	32160	11668
85°	12568	16709	12859



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.9	0.7
10°-20°	50.5	2.2
20°-30°	97.7	4.3
30°-40°	189.1	8.4
40°-50°	341.4	15.2
50°-60°	593.7	26.4
60°-70°	674.0	30.0
70°-80°	261.3	11.6
80°-90°	23.6	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°	163.1	7.3
0°-40°	352.2	15.7
0°-60°	1287.3	57.3
0°-90°	2246.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2246.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	149	149	149	149	149	
5°	154	153	153	153	152	15
15°	180	178	176	175	175	51
25°	214	210	205	205	207	101
35°	310	304	299	304	306	194
45°	450	439	437	420	415	352
55°	630	660	732	652	629	555
65°	567	651	903	701	611	541
75°	149	209	378	198	130	181
85°	17	25	23	25	18	17
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°	149.1	149.1	149.1	149.1	149.1	149.1	149.1	149.1	149.1	149.1	149.1
2.5°	150.0	150.5	150.4	150.1	150.1	150.1	150.0	149.6	149.6	149.8	150.0
5°	153.5	153.5	153.5	153.5	153.2	153.3	153.0	152.8	153.0	152.7	152.6
7.5°	158.8	158.5	158.5	158.4	158.4	158.2	157.8	157.4	157.5	157.4	157.2
10°	165.1	165.2	164.9	165.2	164.6	164.5	164.0	163.8	163.7	163.4	163.4
12.5°	172.6	172.3	172.3	172.1	171.8	171.6	170.9	170.8	170.4	170.1	169.8
15°	179.8	179.6	179.2	178.7	178.6	178.4	177.5	177.0	177.0	176.4	175.9
17.5°	186.8	186.6	186.0	185.8	185.4	185.0	184.2	183.6	183.2	183.0	182.4
20°	194.4	194.1	193.6	193.1	192.5	192.0	191.0	190.4	190.0	189.7	189.3
22.5°	203.8	203.3	202.4	201.6	200.3	199.8	198.4	197.6	197.0	196.6	196.4
25°	214.0	214.1	212.8	211.8	210.3	209.0	207.3	206.4	205.8	205.3	205.2
27.5°	226.8	226.9	225.7	224.2	222.0	220.6	218.2	217.0	216.7	216.2	216.1
30°	247.0	245.9	244.0	241.5	239.4	236.4	233.0	231.9	230.8	230.4	230.4
32.5°	284.2	283.5	282.0	276.0	273.2	266.8	260.9	257.6	253.8	251.9	250.7
35°	310.2	310.0	308.6	306.6	304.8	303.5	300.1	299.5	298.8	298.8	299.7
37.5°	329.3	328.0	327.7	328.0	327.6	327.8	330.6	334.4	337.7	339.3	339.1
40°	357.6	355.7	356.8	356.0	355.0	354.8	355.7	357.2	358.7	358.7	358.4
42.5°	394.7	395.6	396.1	392.8	390.6	390.0	392.2	391.7	393.2	392.6	391.1
45°	449.8	449.2	448.4	444.3	440.8	438.0	438.6	437.8	437.9	437.0	435.8
47.5°	505.2	507.2	503.8	501.8	498.0	496.0	497.6	496.2	498.8	494.0	491.6
50°	559.2	560.6	559.4	556.6	556.6	559.4	561.4	563.9	567.6	562.0	553.6
52.5°	603.3	604.4	606.2	608.5	614.2	620.1	628.4	637.4	644.4	643.4	633.9
55°	630.2	631.6	634.5	642.5	652.8	668.2	687.2	708.0	724.2	732.2	725.2
57.5°	639.2	640.3	648.2	657.8	673.8	696.8	728.6	764.4	795.7	815.6	812.4
60°	637.2	637.2	645.2	658.4	680.7	711.4	756.2	805.9	853.8	883.5	879.0
62.5°	615.2	616.3	627.9	643.8	670.7	707.4	760.8	824.4	881.6	918.6	915.0
65°	567.2	568.0	580.3	599.3	629.4	672.8	731.2	801.6	867.2	902.7	896.0
67.5°	489.4	490.2	500.4	521.8	553.6	599.0	662.0	739.4	803.7	831.8	811.6
70°	389.4	391.7	398.2	420.8	445.0	489.4	547.6	625.0	685.6	712.2	689.9
72.5°	265.4	271.3	279.2	299.2	322.4	359.2	405.5	470.8	519.4	550.2	530.3
75°	149.4	157.8	160.2	175.4	194.5	223.6	257.4	304.2	353.4	378.4	354.5
77.5°	64.6	71.4	74.4	81.5	96.4	108.6	129.1	160.7	198.7	216.2	187.6
80°	31.8	33.4	34.8	37.0	41.1	45.1	54.8	68.6	84.2	88.2	70.2
82.5°	24.6	25.8	28.0	29.8	30.8	31.8	32.8	34.6	36.1	36.9	34.8
85°	17.3	18.8	21.2	23.2	24.4	25.2	26.0	26.6	25.2	23.0	24.2
87.5°	4.6	5.9	8.2	9.0	10.1	10.6	10.5	10.8	9.8	7.0	7.9
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°	149.1	149.1	149.1	149.1	149.1	149.1	149.1	149.1
2.5°	149.9	149.8	149.9	150.0	149.9	149.8	149.8	149.8
5°	152.6	152.6	152.7	152.5	152.4	152.6	152.5	152.4
7.5°	157.1	157.0	157.0	156.9	157.0	156.9	156.9	156.8
10°	163.1	162.9	163.0	162.7	162.7	162.6	162.6	162.6
12.5°	169.6	169.3	169.4	169.1	168.5	168.6	168.8	168.6
15°	175.9	175.6	175.2	175.0	174.6	174.8	174.8	174.6
17.5°	182.3	181.6	181.5	181.1	181.0	181.0	181.0	181.2
20°	189.0	188.5	188.4	188.0	187.9	188.2	188.4	188.1
22.5°	196.0	195.8	196.0	195.8	196.2	196.4	196.5	196.2
25°	205.0	204.7	205.0	205.8	206.4	206.6	207.2	206.9
27.5°	216.4	216.2	217.0	218.2	218.9	220.0	220.6	220.9
30°	231.3	232.4	232.8	235.2	235.6	237.4	237.4	238.3
32.5°	252.9	254.9	258.4	262.0	267.0	270.5	270.5	272.4
35°	300.3	301.1	303.8	304.4	305.4	306.6	305.4	306.3
37.5°	336.6	333.0	330.5	326.9	324.7	324.6	325.0	324.7
40°	355.2	353.8	352.6	349.6	349.2	349.0	349.0	349.5
42.5°	388.4	385.1	383.2	380.6	379.8	379.6	379.5	379.7
45°	431.6	426.2	421.2	418.6	416.4	414.4	415.0	415.0
47.5°	481.9	473.4	465.3	460.9	457.0	455.3	454.2	453.8
50°	543.1	531.3	520.8	512.6	507.0	506.9	507.4	503.7
52.5°	618.2	599.4	586.4	575.2	570.0	569.5	567.6	565.5
55°	701.3	679.1	657.6	645.6	638.8	635.0	632.9	629.4
57.5°	787.0	757.1	726.2	707.1	695.0	686.6	682.2	680.2
60°	853.0	812.3	771.6	740.8	720.7	708.2	700.6	697.4
62.5°	879.0	823.8	771.6	731.1	702.0	684.9	674.6	670.0
65°	848.0	782.6	723.1	678.5	646.1	627.0	615.7	610.8
67.5°	761.4	703.6	638.9	594.6	561.2	542.3	530.1	526.5
70°	638.3	579.2	517.4	477.8	448.1	432.6	420.0	418.5
72.5°	479.7	428.7	375.8	343.0	319.1	293.5	287.0	290.3
75°	307.5	259.8	212.6	183.1	161.3	136.9	127.5	129.8
77.5°	145.6	112.8	81.4	63.0	52.8	45.2	43.2	42.0
80°	54.0	43.8	38.6	36.7	35.3	34.0	33.1	32.0
82.5°	35.0	34.2	33.1	32.8	31.7	30.1	27.0	25.8
85°	26.2	26.2	24.8	24.8	24.0	22.0	19.2	17.7
87.5°	7.6	6.8	6.2	5.8	5.6	5.1	3.7	3.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)