

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: P147838

Luminaire Tested: **TLM-E01-LED-E1-5WQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P147838
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33675)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TLM-E01-LED-E1-5WQ-8030
Description: TALON MEDIUM LED SITE LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

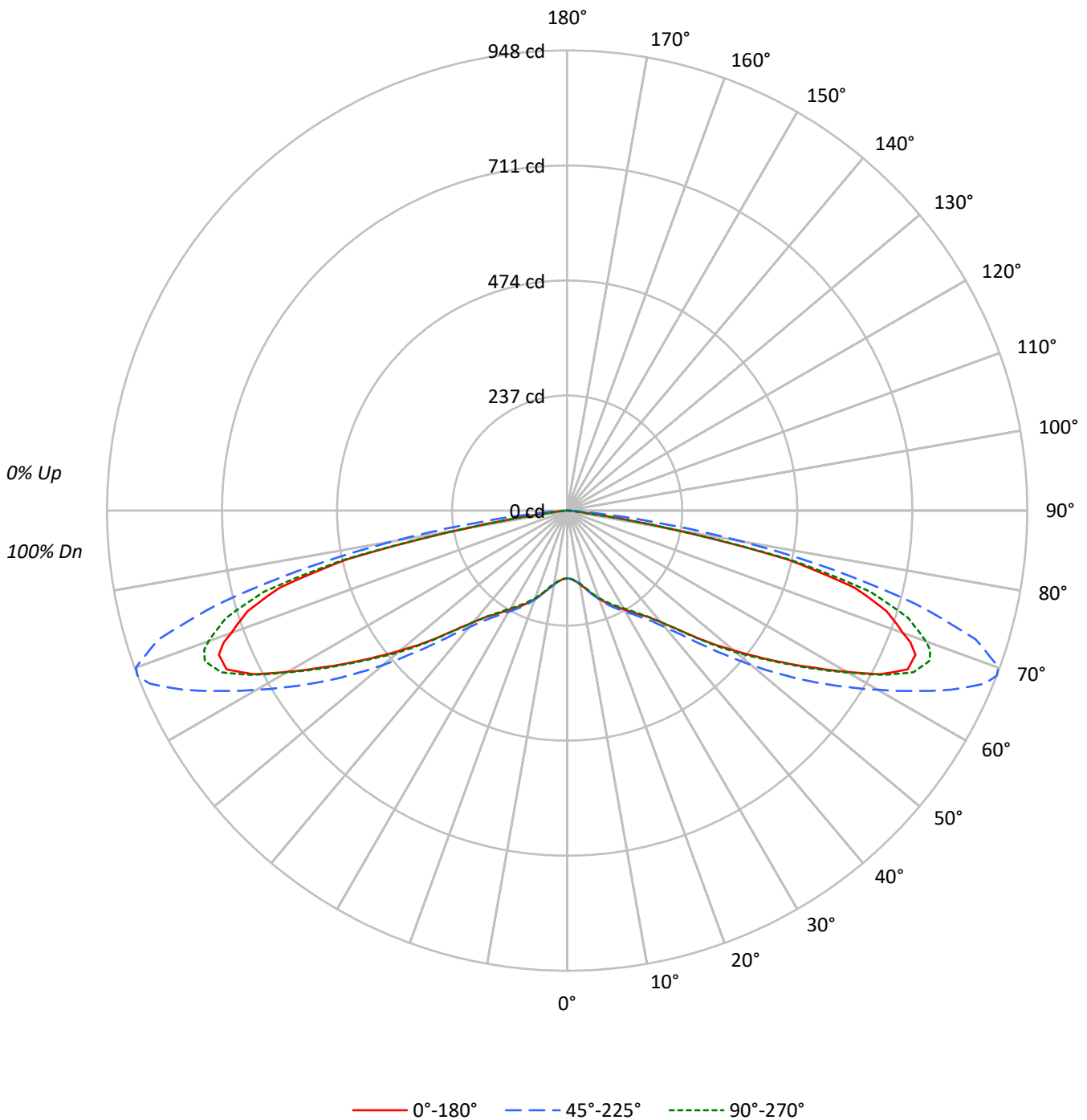
Lumens per Lamp: N/A
Luminaire Lumens: 2687.1 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Spacing Criteria (0/90/45): 3.9 / 3.92 / 3.98
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 24.7
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	103	96	90	84	100	94	88	82	89	84	80	85	81	77	81	78	75	72
2	89	77	67	58	86	75	65	58	71	63	56	67	60	55	64	58	53	51
3	78	63	51	42	75	61	50	42	58	48	41	54	46	40	52	45	39	36
4	69	52	41	31	66	51	40	31	48	38	31	45	37	30	43	36	29	27
5	62	45	33	24	59	44	32	24	41	31	24	39	30	23	37	29	23	20
6	56	39	28	19	54	38	27	19	36	26	19	34	25	19	32	24	18	16
7	51	34	24	16	49	34	23	16	32	22	16	30	22	15	29	21	15	13
8	47	31	20	13	45	30	20	13	29	20	13	27	19	13	26	18	13	10
9	44	28	18	11	42	27	18	11	26	17	11	25	17	11	23	16	11	9
10	41	25	16	10	39	25	16	10	24	15	10	23	15	10	22	15	10	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8833	8833	8833
5°	9121	9121	9083
10°	9933	9914	9824
15°	11268	11321	11157
20°	13045	13153	12930
25°	15014	15251	14797
30°	17196	17584	16991
35°	20221	20769	20051
40°	24722	25854	24722
45°	32648	34761	32773
50°	44149	48720	44750
55°	60339	67791	60681
60°	84073	93481	84402
65°	115947	130869	117969
70°	136253	175056	145510
75°	149890	181962	158232
80°	75806	132652	78067
85°	9808	35961	7555



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.0	0.5
10°-20°	49.5	1.8
20°-30°	100.2	3.7
30°-40°	168.0	6.3
40°-50°	296.3	11.0
50°-60°	522.5	19.4
60°-70°	797.7	29.7
70°-80°	666.6	24.8
80°-90°	72.4	2.7
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°	163.7	6.1
0°-40°	331.6	12.3
0°-60°	1150.4	42.8
0°-90°	2687.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2687.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	140	140	140	140	140	
5°	144	144	144	143	143	14
15°	172	173	173	171	170	50
25°	215	216	218	214	212	100
35°	262	263	269	263	259	166
45°	365	373	388	376	366	286
55°	547	573	614	577	550	495
65°	774	816	874	822	787	741
75°	613	647	744	689	647	590
85°	14	22	50	20	10	44
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°	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5
2.5°	140.7	140.9	140.7	140.7	140.7	140.7	140.7	140.4	140.4	140.4	140.7
5°	143.5	143.8	143.5	143.8	143.8	143.8	143.8	143.5	143.5	143.5	143.5
7.5°	148.0	148.0	148.0	148.3	148.0	148.0	148.3	148.0	148.0	148.0	148.0
10°	154.5	154.2	154.2	154.2	154.2	154.2	154.5	154.5	154.5	154.5	154.2
12.5°	162.3	162.0	162.3	162.3	162.6	162.6	162.6	162.6	162.6	162.6	162.3
15°	171.9	171.9	171.9	172.2	172.7	172.7	172.5	172.7	172.7	172.7	172.7
17.5°	182.6	183.1	182.6	182.9	183.1	182.9	183.4	183.7	184.0	183.7	182.9
20°	193.6	193.8	193.8	193.8	193.8	194.4	194.7	194.7	195.5	195.2	195.0
22.5°	204.0	204.5	204.5	204.8	204.8	205.7	205.7	205.7	206.2	206.8	206.2
25°	214.9	214.7	214.7	215.2	215.5	216.6	216.6	217.2	218.0	218.3	217.7
27.5°	224.8	224.5	224.5	225.3	225.6	227.0	227.0	228.2	228.7	229.0	228.4
30°	235.2	235.2	234.9	235.8	236.6	237.7	238.3	239.4	240.3	240.5	240.0
32.5°	247.6	247.0	247.3	247.9	248.4	249.5	250.4	251.8	252.9	253.2	252.6
35°	261.6	260.8	261.1	261.6	262.5	264.2	265.6	266.4	268.1	268.7	267.5
37.5°	277.1	277.4	277.1	278.5	279.9	281.9	283.6	284.7	286.4	287.2	286.4
40°	299.1	298.2	299.1	300.5	302.7	305.2	308.6	309.5	311.2	312.8	310.9
42.5°	327.5	326.9	328.9	330.0	332.5	335.3	339.6	341.8	344.3	345.5	343.8
45°	364.6	364.6	366.9	367.1	371.1	374.7	380.6	383.5	388.2	388.2	388.2
47.5°	405.7	407.4	408.8	411.6	414.4	421.2	427.1	433.2	437.7	438.3	437.5
50°	448.2	449.8	454.1	458.0	464.2	472.6	479.1	487.3	491.2	494.6	493.5
52.5°	495.1	495.4	500.5	505.6	514.6	523.8	534.2	542.7	549.7	552.8	550.3
55°	546.6	547.2	551.7	557.0	567.2	577.9	590.8	599.5	608.5	614.1	609.9
57.5°	602.3	602.6	607.1	613.6	625.7	636.4	648.7	661.1	669.6	674.6	671.8
60°	663.9	665.3	668.7	676.9	688.4	699.7	712.0	723.0	732.9	738.2	735.4
62.5°	729.8	731.2	736.0	742.4	752.6	764.9	776.8	790.8	799.0	804.9	800.7
65°	773.9	776.5	784.1	792.8	807.7	823.7	837.5	856.7	866.5	873.5	869.6
67.5°	776.8	778.2	787.4	800.7	820.6	844.8	873.0	902.8	922.2	931.5	924.7
69°	757.6	759.6	768.6	783.5	805.7	833.9	867.3	904.5	934.3	948.1	941.6
70°	736.0	740.2	750.0	766.3	788.0	817.5	852.1	891.8	926.7	945.6	940.8
72.5°	690.4	691.5	698.0	710.9	727.5	752.0	784.6	822.0	855.2	882.3	886.2
75°	612.7	616.4	621.2	629.9	638.3	656.1	678.0	703.6	723.0	743.8	744.7
77.5°	463.1	474.0	477.7	479.7	483.3	497.4	516.5	538.7	554.8	558.2	557.6
80°	207.9	222.5	225.9	241.9	251.8	275.1	304.4	338.4	361.2	363.8	357.6
82.5°	40.8	43.6	50.9	63.6	86.6	100.4	119.6	143.5	165.4	178.1	170.5
85°	13.5	14.3	16.6	18.3	21.1	23.9	29.0	36.0	44.7	49.5	44.2
87.5°	5.3	5.3	6.2	6.8	7.3	7.3	7.3	6.8	6.5	5.3	4.8
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°	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5
2.5°	140.4	140.4	140.4	140.4	140.4	140.4	140.4	140.4
5°	143.5	143.2	143.2	142.9	142.9	142.9	142.9	142.9
7.5°	147.7	147.4	147.1	147.4	147.1	147.1	147.1	147.1
10°	154.2	153.6	153.3	153.0	153.0	153.0	152.8	152.8
12.5°	161.8	161.8	161.5	161.2	160.6	160.9	160.6	160.1
15°	172.2	171.6	171.3	171.0	170.5	170.5	170.5	170.2
17.5°	182.6	182.0	182.0	181.2	180.9	180.9	180.9	181.2
20°	194.1	193.3	192.7	192.1	191.6	191.9	191.3	191.9
22.5°	205.7	204.5	204.0	203.1	202.3	202.3	202.0	201.4
25°	216.9	215.5	214.9	214.1	213.0	213.0	212.4	211.8
27.5°	227.6	226.2	225.6	223.9	222.8	222.5	222.0	221.7
30°	239.4	237.7	236.9	235.2	233.5	233.2	232.4	232.4
32.5°	251.8	250.1	249.5	247.0	245.6	245.6	245.0	244.5
35°	267.3	264.7	264.2	261.6	259.7	259.7	259.1	259.4
37.5°	285.6	283.6	281.6	279.6	277.4	277.1	276.5	276.0
40°	310.0	307.8	305.5	302.7	300.7	300.2	299.3	299.1
42.5°	342.7	340.4	335.9	333.7	331.7	330.0	329.7	329.4
45°	384.3	381.5	378.4	374.2	371.6	368.0	367.4	366.0
47.5°	434.4	429.0	423.7	420.0	416.1	411.9	411.0	408.8
50°	487.5	483.3	474.3	468.4	462.2	458.0	455.2	454.3
52.5°	544.7	536.8	527.8	519.9	510.9	505.3	500.2	498.8
55°	604.3	593.0	581.8	572.5	563.5	556.8	552.0	549.7
57.5°	663.9	651.6	639.2	629.1	621.5	612.7	608.0	606.8
60°	726.1	714.3	701.6	691.5	682.2	674.6	671.8	666.5
62.5°	791.9	779.6	767.8	757.9	746.1	740.7	736.0	732.9
65°	856.7	842.3	827.4	817.0	805.2	797.6	791.7	787.4
67.5°	906.7	885.1	865.1	847.6	831.6	819.8	812.2	808.3
69°	920.8	893.8	868.2	845.4	826.5	813.3	804.9	800.9
70°	919.1	889.3	861.2	836.1	815.6	801.5	793.4	786.0
72.5°	867.1	839.8	808.5	781.3	762.7	749.2	741.0	737.1
75°	739.9	721.6	699.1	678.0	664.5	656.6	646.5	646.8
77.5°	538.7	539.3	524.1	502.5	487.3	484.5	479.9	475.4
80°	334.2	307.5	290.1	266.7	249.5	234.6	228.2	214.1
82.5°	154.2	120.4	93.4	70.6	54.3	42.5	37.1	30.4
85°	34.3	26.2	21.7	17.4	14.9	13.8	11.3	10.4
87.5°	4.8	4.2	3.9	3.7	3.1	2.3	1.7	1.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)