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Indoor Distribution Test Report

Relevant Standards
IES LM-79-2008
ANSI C82.77-2002

Prepared For
Jesco Lighting Group LLC

15 Harbor Park Dr
Port Washington, NY 11050
United States

Catalog Number
RLET-P351FX-15-3590-M-WHWH

Order Number
11642482
Test Number
11642482.01

Test Date

2017-02-23

Prepared By

Derek Smarr, Technician

Approved By

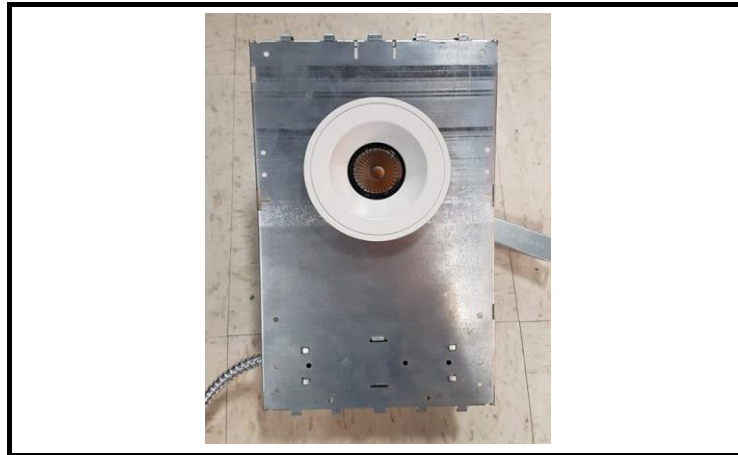
Tiffany Hamm, Project Handler

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Luminaire Description: Formed steel housing, black formed aluminum heatsink, patterned specular internal reflector, clear glass lens enclosure, white formed steel external reflector
Lamp: One white LED
Mounting: Recessed
Ballast/Driver: One ERP ESM020W-0350-42

Luminaire



Luminaire Characteristics
Luminous Diameter: 3.00 in.

Summary of Results

Total Luminaire Output:	1129 Lumens
Luminaire Efficacy:	80.3 lm/w
Maximum Candela:	5430 Candela

Test Conditions

Test Temperature:	24.6 °C
Voltage:	120.0 VAC
Current:	0.1186 A
Power:	14.06 W
Power Factor:	0.988
Frequency:	60 Hz
Current THD:	13.0 %

Laboratory results may not be representative of field performance
Ballast factors have not been applied



Distribution - Goniophotometer

Distribution Test Conditions

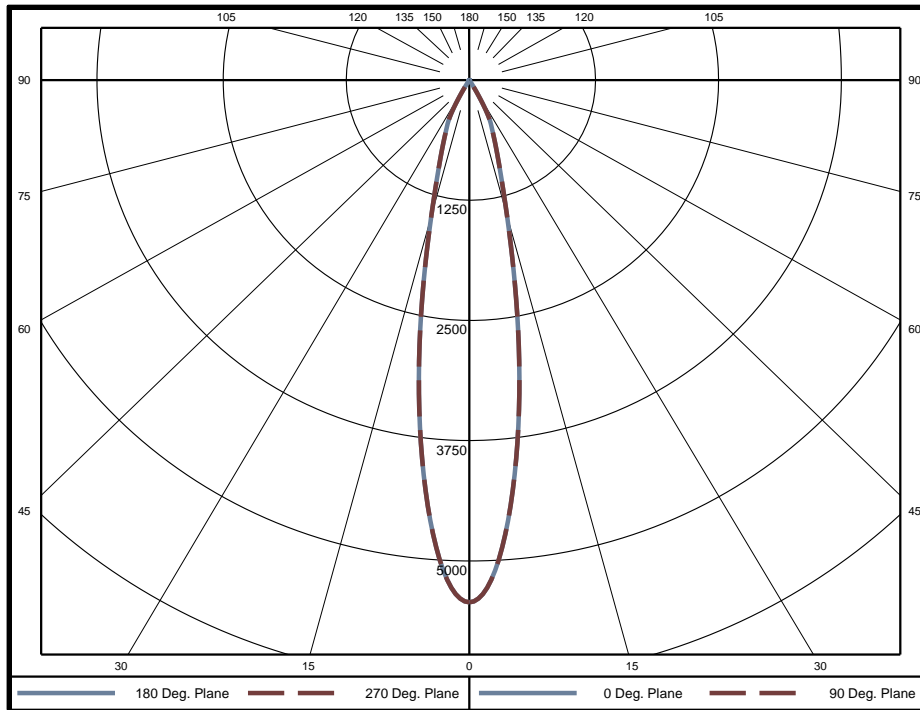
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.6 °C	120.0 VAC	0.1186 A	14.06 W	0.988	60 Hz	13.0 %

Summary of Results

Spacing Criteria
 0-180: 0.37
 90-270: 0.37

Total Lumen Output: 1129 Lumens
Luminaire Efficacy: 80.3 lm/w
Maximum Candela: 5430 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	119.6	10.6%	60-65	2.4	0.2%	120-125	0	0.0%
5-10	265.4	23.5%	65-70	2.2	0.2%	125-130	0	0.0%
10-15	255.9	22.7%	70-75	2.0	0.2%	130-135	0	0.0%
15-20	188.1	16.7%	75-80	1.5	0.1%	135-140	0	0.0%
20-25	143.9	12.7%	80-85	1.0	0.1%	140-145	0	0.0%
25-30	104.8	9.3%	85-90	0.3	0.0%	145-150	0	0.0%
30-35	23.9	2.1%	90-95	0	0.0%	150-155	0	0.0%
35-40	5.7	0.5%	95-100	0	0.0%	155-160	0	0.0%
40-45	4.0	0.4%	100-105	0	0.0%	160-165	0	0.0%
45-50	3.0	0.3%	105-110	0	0.0%	165-170	0	0.0%
50-55	2.6	0.2%	110-115	0	0.0%	170-175	0	0.0%
55-60	2.5	0.2%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	1107	98.1%
0-60	1119	99.1%
0-90	1129	100.0%
90-180	0	0.0%



Candela Tabulation
Horizontal Angle (Degrees)

Vertical Angle (Degrees)	Horizontal Angle (Degrees)															
	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5
0	5430	5430	5430	5430	5430	5430	5430	5430	5430	5430	5430	5430	5430	5430	5430	5430
5	4596	4596	4596	4596	4596	4596	4596	4596	4596	4596	4596	4596	4596	4596	4596	4596
10	2966	2966	2966	2966	2966	2966	2966	2966	2966	2966	2966	2966	2966	2966	2966	2966
15	1549	1549	1549	1549	1549	1549	1549	1549	1549	1549	1549	1549	1549	1549	1549	1549
20	867	867	867	867	867	867	867	867	867	867	867	867	867	867	867	867
25	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550
30	234	234	234	234	234	234	234	234	234	234	234	234	234	234	234	234
35	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
40	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
45	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
50	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
55	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
60	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
65	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
70	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
75	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
80	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
85	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Average Luminance (cd/m²)
Horizontal Angle (Degrees)

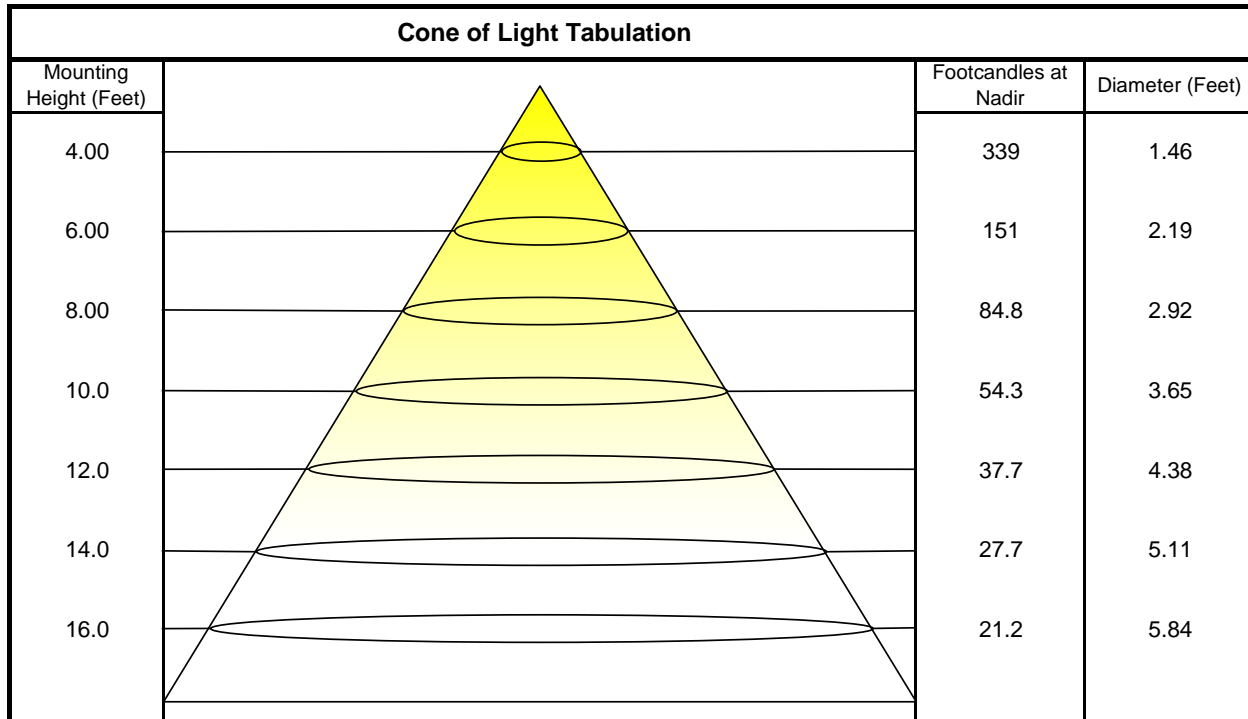
Vertical Angle (Degrees)	Horizontal Angle (Degrees)		
	0	45	90
0	1191000	1191000	1191000
45	2672	2672	2672
55	2146	2146	2146
65	2424	2424	2424
75	2850	2850	2850
85	3056	3056	3056



Utilization of Lumens - Zonal Cavity Method

Effective Floor Cavity Reflectance 20%																		
Ceiling Cavity Reflectance	80				70				50			30			10			0
Wall Reflectance	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
Room Cavity Ratio (RCR)	** Values are expressed as Lumens delivered to the task surface **																	
0	1344	1344	1344	1344	1312	1312	1312	1312	1254	1254	1254	1201	1201	1201	1152	1152	1152	1129
1	1296	1271	1248	1228	1269	1247	1227	1209	1202	1186	1172	1160	1148	1137	1122	1113	1104	1085
2	1251	1208	1173	1144	1228	1190	1158	1131	1154	1129	1107	1122	1101	1084	1092	1076	1061	1045
3	1209	1155	1112	1079	1189	1140	1101	1070	1112	1080	1054	1086	1060	1038	1062	1040	1022	1007
4	1170	1107	1061	1026	1152	1095	1053	1020	1073	1037	1008	1052	1022	997	1032	1007	986	972
5	1134	1065	1017	981	1118	1055	1010	977	1037	998	969	1020	987	961	1004	976	953	940
6	1099	1026	978	943	1085	1018	973	940	1003	963	934	989	954	928	976	946	922	910
7	1067	991	943	909	1054	985	939	906	972	932	902	961	925	898	950	918	893	882
8	1036	959	911	878	1025	954	908	876	943	902	873	933	897	870	924	891	867	855
9	1008	930	882	850	998	925	880	849	916	875	847	908	871	844	900	866	842	831
10	980	902	856	825	971	898	854	824	891	850	822	883	846	820	877	843	818	808

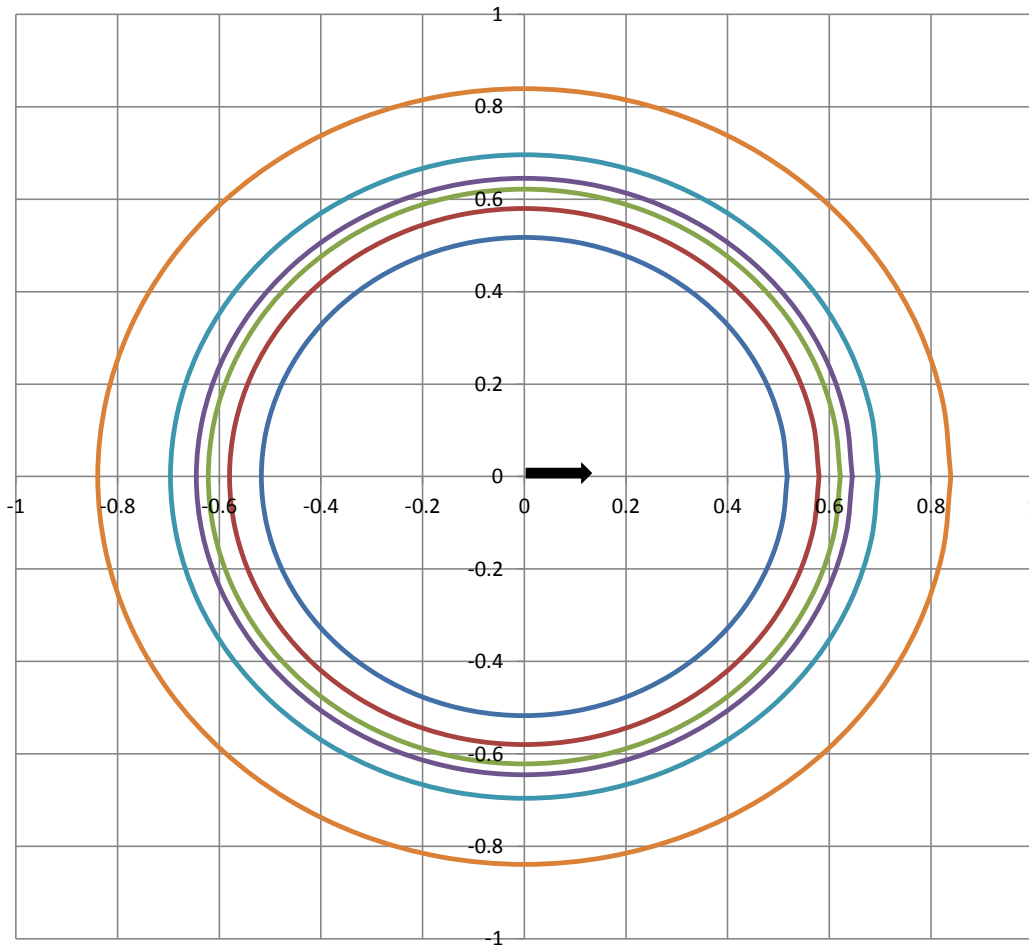
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	5430 Candela
Central Cone Intensity:	5125 Candela
Beam Flux:	426.6 Lumens
Beam Angle (0-180):	21.5 Degrees
Beam Angle (90-270):	21.5 Degrees
Field Angle (0-180):	50.3 Degrees
Field Angle (90-270):	50.3 Degrees





ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

