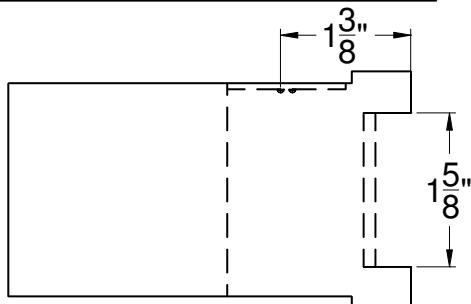
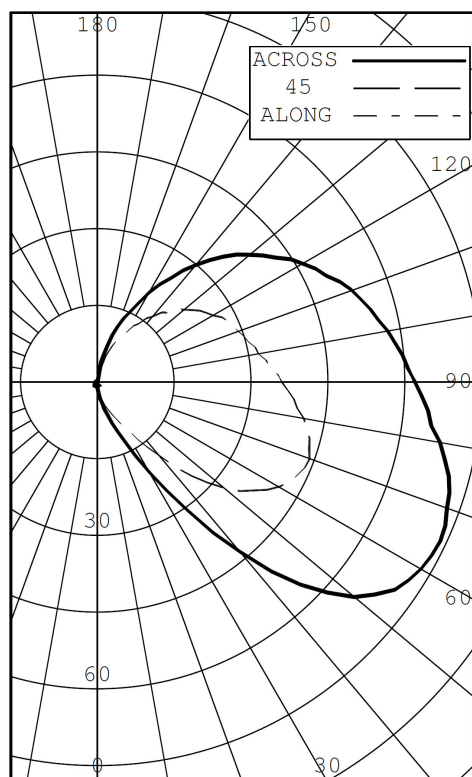




INDEPENDENT TEST LABORATORY REPORT No. 28874

COLORONIX - LED PATHWAY LUMINAIRE, CAT# SWS1
WITH WHITE INTERIOR AND FROSTED FLAT GLASS LENS
LED ARRAY. LUMINAIRE OUTPUT = 165 LMS.
LUMINAIRE OPERATING AT 120 VAC AND 5.3 WATTS



ANGLE	INTENSITY (CANDLEPOWER) SUMMARY				OUTPUT LUMENS	
	BEAM SIDE	67.5	45	22.5		
ALONG	ACROSS	ALONG	ACROSS	ALONG	ACROSS	
0	1	1	1	1	1	
5	1	1	1	1	2	0
15	1	2	4	5	6	1
25	1	3	7	11	13	2
35	0	4	14	26	30	5
45	1	6	26	48	56	10
55	0	9	37	61	71	16
65	0	11	43	67	74	20
75	0	11	43	66	71	20
85	0	11	39	60	65	19
90	0	11	36	57	62	
95	0	11	34	54	60	18
105	0	10	31	48	55	15
115	0	10	28	44	49	13
125	0	9	24	38	42	10
135	0	7	19	31	35	7
145	0	5	14	22	25	4
155	0	1	9	14	15	2
165	0	0	3	6	7	1
175	0	0	0	0	0	0
180	0	0	0	0	0	

BOTH SIDES ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	3	1.63
0-40	8	4.67
0-60	35	21.01
0-90	95	57.22
40-90	87	52.55
60-90	60	36.22
90-180	71	42.78
0-180	165	100.00

EFFICACY (LUMENS PER WATT): 31.2

*** THIS IS AN ABSOLUTE TEST ***

LUMINOUS LENGTH: 0.000 INS
WIDTH: 4.625 INS

LUMINANCE SUMMARY - CD./SQ.M.

ANGLE	BEAM SIDE		
	ALONG	45	ACROSS
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

CERTIFIED BY:

Ryder Tunney

DATE:

APR 15, 2011

PREPARED FOR:

COLORONIX
LOS ANGELES, CA

TESTED IN ACCORDANCE WITH IES PROCEDURES.

LIGHTING SCIENCES, INC.
7826 E. EVANS RD.
SCOTTSDALE, AZ, USA 85260

INDEPENDENT TEST LABORATORY REPORT No. 28874

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LED ARRAY. LUMINAIRE OUTPUT = 165 LMS.
LUMINAIRE OPERATING AT 120 VAC AND 5.3 WATTS

BEAM SIDE
INTENSITY (CANDLEPOWER) DATA

ANGLE	ALONG	67.5	45	PLANE 22.5	ACROSS	AVERAGE	OUTPUT LUMENS
0	1	1	1	1	1	1	
5	1	1	1	1	2	1	0
10	1	1	3	3	3	2	
15	1	2	4	5	6	4	1
20	1	2	5	8	9	5	
25	1	3	7	11	13	7	2
30	1	4	10	17	21	10	
35	0	4	14	26	30	15	5
40	1	5	19	37	43	21	
45	1	6	26	48	56	27	10
50	1	8	32	56	65	32	
55	0	9	37	61	71	36	16
60	0	11	41	65	73	38	
65	0	11	43	67	74	40	20
70	0	11	44	67	73	40	
75	0	11	43	66	71	39	20
80	0	11	41	63	68	37	
85	0	11	39	60	65	35	19
90	0	11	36	57	62	34	
95	0	11	34	54	60	32	18
100	0	11	32	51	58	31	
105	0	10	31	48	55	29	15
110	0	10	29	46	53	28	
115	0	10	28	44	49	27	13
120	0	10	26	41	46	25	
125	0	9	24	38	42	23	10
130	0	8	22	34	39	21	
135	0	7	19	31	35	19	7
140	0	6	17	26	30	16	
145	0	5	14	22	25	13	4
150	0	4	11	18	20	11	
155	0	1	9	14	15	8	2
160	0	0	6	10	12	6	
165	0	0	3	6	7	3	1
170	0	0	0	2	4	1	
175	0	0	0	0	0	0	0
180	0	0	0	0	0	0	

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WITH WHITE INTERIOR AND FROSTED FLAT GLASS LENS
LED ARRAY. LUMINAIRE OUTPUT = 165 LMS.
LUMINAIRE OPERATING AT 120 VAC AND 5.3 WATTS

BEAM SIDE
AVERAGE LUMINANCE DATA

CD./SQ.M (FOOTLAMBERTS)

ANGLE	ALONG	67.5	45	22.5	ACROSS
0	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
30	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
40	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
45	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
50	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
55	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
60	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
65	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
70	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
75	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
80	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
85	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

LUMINOUS LENGTH: 0.000 INS
WIDTH: 4.625 INS

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COLORONIX - LED PATHWAY LUMINAIRE, CAT# SWS1
WITH WHITE INTERIOR AND FROSTED FLAT GLASS LENS
LED ARRAY. LUMINAIRE OUTPUT = 165 LMS.
LUMINAIRE OPERATING AT 120 VAC AND 5.3 WATTS

OPPOSITE SIDE TO BEAM
INTENSITY(CANDLEPOWER) DATA

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	112.5	135	157.5	ACROSS	AVERAGE	
0	1	1	1	1	1	1	
5	1	1	1	1	1	1	0
10	1	1	1	1	1	1	
15	1	1	1	1	1	1	0
20	1	0	1	1	1	1	
25	1	1	1	1	1	1	0
30	1	1	1	1	0	1	
35	0	1	1	1	0	1	0
40	1	0	1	1	1	1	
45	1	1	1	1	1	1	0
50	1	1	1	0	1	1	
55	0	0	0	1	1	1	0
60	0	1	0	0	1	0	
65	0	1	0	1	0	0	0
70	0	0	0	1	0	0	
75	0	0	1	0	1	0	0
80	0	0	0	0	0	0	
85	0	0	0	0	0	0	0
90	0	0	0	0	0	0	
95	0	0	0	0	0	0	0
100	0	0	0	0	0	0	
105	0	0	0	0	0	0	0
110	0	0	0	0	0	0	
115	0	0	0	0	0	0	0
120	0	0	0	0	0	0	
125	0	0	0	0	0	0	0
130	0	0	0	0	0	0	
135	0	0	0	0	0	0	0
140	0	0	0	0	0	0	
145	0	0	0	0	0	0	0
150	0	0	0	0	0	0	
155	0	0	0	0	0	0	0
160	0	0	0	0	0	0	
165	0	0	0	0	0	0	0
170	0	0	0	0	0	0	
175	0	0	0	0	0	0	0
180	0	0	0	0	0	0	

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WITH WHITE INTERIOR AND FROSTED FLAT GLASS LENS
LED ARRAY. LUMINAIRE OUTPUT = 165 LMS.
LUMINAIRE OPERATING AT 120 VAC AND 5.3 WATTS

OPPOSITE SIDE TO BEAM
AVERAGE LUMINANCE DATA

CD./SQ.M (FOOTLAMBERTS)

ANGLE	ALONG	112.5	135	157.5	ACROSS
0	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
30	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
40	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
45	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
50	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
55	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
60	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
65	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
70	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
75	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
80	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
85	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

LUMINOUS LENGTH: 0.000 INS
WIDTH: 4.625 INS

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LUMINAIRE OPERATING AT 120 VAC AND 5.3 WATTS

COEFFICIENTS OF UTILIZATION

ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE = .20

CC WALL	90				80				70				50				30				10				0
	70	50	30	10	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																									
0	1.16	1.16	1.16	1.16	1.09	1.09	1.09	1.09	1.01	1.01	1.01	1.01	0.87	0.87	0.87	0.75	0.75	0.75	0.63	0.63	0.63	0.57			
1	1.01	0.93	0.86	0.81	0.94	0.87	0.81	0.75	0.86	0.80	0.75	0.69	0.68	0.64	0.60	0.57	0.53	0.50	0.46	0.44	0.42	0.36			
2	0.89	0.77	0.68	0.60	0.82	0.72	0.63	0.55	0.76	0.66	0.58	0.51	0.55	0.49	0.44	0.46	0.41	0.36	0.37	0.33	0.30	0.25			
3	0.79	0.65	0.54	0.46	0.73	0.60	0.51	0.43	0.67	0.55	0.47	0.39	0.46	0.39	0.33	0.38	0.32	0.27	0.30	0.25	0.22	0.17			
4	0.72	0.56	0.45	0.37	0.66	0.52	0.42	0.34	0.60	0.48	0.39	0.32	0.40	0.32	0.27	0.32	0.26	0.22	0.25	0.21	0.17	0.13			
5	0.65	0.48	0.38	0.29	0.60	0.45	0.35	0.27	0.54	0.41	0.32	0.25	0.34	0.27	0.21	0.28	0.22	0.17	0.22	0.17	0.13	0.09			
6	0.59	0.43	0.32	0.24	0.54	0.39	0.29	0.22	0.49	0.36	0.27	0.20	0.30	0.22	0.17	0.24	0.18	0.13	0.19	0.14	0.10	0.07			
7	0.54	0.37	0.27	0.20	0.49	0.34	0.25	0.18	0.45	0.32	0.23	0.17	0.26	0.19	0.14	0.21	0.15	0.11	0.16	0.11	0.08	0.05			
8	0.49	0.33	0.24	0.17	0.45	0.31	0.22	0.15	0.41	0.28	0.20	0.14	0.23	0.16	0.11	0.19	0.13	0.09	0.14	0.10	0.06	0.04			
9	0.46	0.30	0.20	0.14	0.42	0.28	0.19	0.13	0.38	0.25	0.17	0.12	0.21	0.14	0.10	0.17	0.11	0.07	0.13	0.08	0.05	0.03			
10	0.42	0.27	0.18	0.12	0.39	0.25	0.16	0.11	0.35	0.23	0.15	0.10	0.19	0.13	0.08	0.15	0.10	0.06	0.12	0.07	0.04	0.02			

THE ABOVE COEFFICIENTS HAVE BEEN CALCULATED BASED ON LUMINAIRE LUMENS
BECAUSE IN AN ABSOLUTE TEST THE BARE LAMP LUMENS ARE UNKNOWN.
LIGHTING DESIGN CALCULATIONS MADE USING THESE COEFFICIENTS SHOULD
THEREFORE USE THE LUMINAIRE LUMENS IN THE CALCULATION FORMULA

LUMINAIRE INPUT WATTS 5.3

LABORATORY RESULTS MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
BALLAST AND FIELD FACTORS HAVE NOT BEEN APPLIED.

TEST DISTANCE EXCEEDS FIVE TIMES THE GREATEST
LUMINOUS OPENING OF LUMINAIRE.