

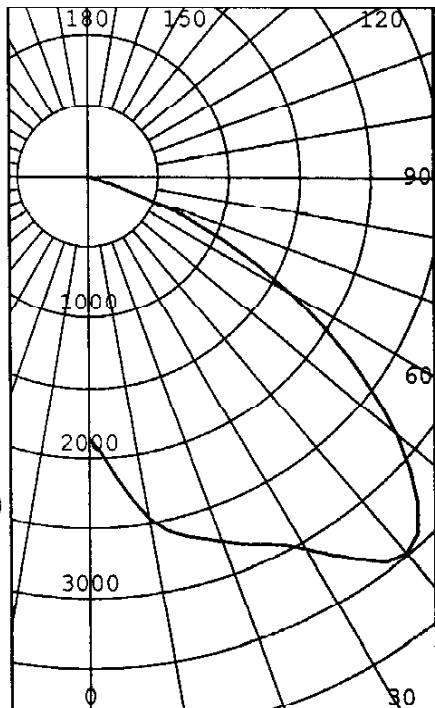


CERTIFIED TEST REPORT No. LSI

16959

ESCO LIGHTING - 15" ROUND SURFACE MOUNT OPEN CYLINDER LUMINAIRE, CAT# S7090W
WITH SEMI-SPECULAR REFLECTOR AND NO LENS
ONE PHILIPS 165 WATT INDUCTION LAMP, CAT# QL165W/830. LUMEN RATING = 12000 LMS.
ONE QL165WS/01 BALLAST OPERATING AT 277 VAC AND 140 WATTS

CANDLEPOWER SUMMARY



ANGLE	MEAN CP	LUMENS
0	1859	
5	2134	219
10	2469	
15	2642	750
20	2759	
25	2877	1339
30	3053	
35	3317	2080
40	3487	
45	3279	2495
50	2838	
55	2272	2014
60	1646	
65	1036	1020
70	444	
75	62	139
80	28	
85	22	22
90	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	2307	19.23	22.90
0-40	4387	36.57	43.54
0-60	8896	74.14	88.28
0-90	10078	83.99	100.00
40-90	5690	47.42	56.46
60-90	1181	9.84	11.72
90-180	0	.00	.00
0-180	10078	83.99	100.00

** EFFICIENCY: 84.0% **

LUMINANCE SUMMARY CD./SQ.M.

S/MH: 2.2
SC: 2.0

ANGLE	MEAN CD/SQ M
45	49450
55	42243
65	26140
75	2558
85	2728

CERTIFIED BY:

Tan Leven

DATE:
SEP 17, 2002

PREPARED FOR:

ESCO LIGHTING
CHICAGO, IL

TESTED IN ACCORDANCE WITH IES PROCEDURES.

Lighting Sciences
7830 E. Evans Rd.
Scottsdale, AZ, USA 85260

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CANDLEPOWER DATA
IN 2.5 DEGREE STEPS

ANGLE	CANDLEPOWER	LUMENS
.0	1859	
2.5	1960	
5.0	2134	219
7.5	2311	
10.0	2469	
12.5	2576	
15.0	2642	750
17.5	2696	
20.0	2759	
22.5	2824	
25.0	2877	1339
27.5	2942	
30.0	3053	
32.5	3185	
35.0	3317	2080
37.5	3446	
40.0	3487	
42.5	3430	
45.0	3279	2495
47.5	3074	
50.0	2838	
52.5	2567	
55.0	2272	2014
57.5	1963	
60.0	1646	
62.5	1343	
65.0	1036	1020
67.5	729	
70.0	444	
72.5	205	
75.0	62	139
77.5	32	
80.0	28	
82.5	26	
85.0	22	22
87.5	17	
90.0	0	

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AVERAGE LUMINANCE DATA

CD./SQ.M. (FOOTLAMBERTS)

ANGLE	LUMINANCE
0	19751 (5764)
30	37443 (10928)
40	48355 (14113)
45	49450 (14432)
50	46897 (13687)
55	42243 (12329)
60	34971 (10206)
65	26140 (7629)
70	13787 (4024)
75	2558 (746)
80	1712 (499)
85	2728 (796)

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COEFFICIENTS OF UTILIZATION

ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE = .20

CC WALL	80				70				50				30				10				0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	1.00	1.00	1.00	1.00	.98	.98	.98	.98	.93	.93	.93	.89	.89	.89	.86	.86	.86	.84			
1	.93	.90	.87	.84	.91	.88	.85	.83	.84	.82	.80	.81	.79	.78	.78	.77	.75	.74			
2	.86	.80	.76	.71	.84	.79	.74	.71	.76	.72	.69	.73	.70	.67	.71	.68	.66	.64			
3	.79	.71	.65	.60	.77	.70	.64	.60	.68	.63	.59	.65	.61	.58	.63	.60	.57	.55			
4	.73	.63	.57	.52	.71	.62	.56	.51	.60	.55	.51	.58	.54	.50	.57	.53	.49	.48			
5	.66	.56	.49	.44	.65	.55	.49	.44	.54	.48	.43	.52	.47	.43	.50	.46	.42	.41			
6	.61	.50	.43	.37	.59	.49	.42	.37	.47	.41	.37	.46	.41	.37	.45	.40	.36	.35			
7	.55	.44	.37	.32	.54	.43	.36	.31	.42	.35	.31	.40	.35	.31	.39	.34	.30	.29			
8	.50	.39	.32	.27	.49	.38	.32	.27	.37	.31	.27	.36	.31	.26	.35	.30	.26	.25			
9	.46	.35	.28	.23	.45	.34	.28	.23	.33	.27	.23	.32	.27	.23	.31	.26	.22	.21			
10	.42	.31	.24	.20	.41	.31	.24	.20	.30	.24	.19	.29	.23	.19	.28	.23	.19	.18			

LUMINAIRE INPUT WATTS = 140.0

LABORATORY RESULTS MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.

BALLAST AND FIELD FACTORS HAVE NOT BEEN APPLIED.