

# Pacific Northwest National Laboratory

Operated by Battelle for the U.S. Department of Energy



Manufacturer: GE  
 Lamp Model: FLE26/2/R40XL  
 Test Facility: Luminaire Testing Laboratory, Allentown, PA  
 Date Provided: 10/1/2007  
 Test Number: 09262

Lumen Maintenance (interpolated)	
Rated Life	10,000
1000 hr.	89.23%
40% of Rated Life	4000
	78.47%

## Life and Lumen Maintenance Report

LUMEN MAINTENANCE (values in fc)																			
Date	1/4/06	1/11/06	1/18/06	1/25/06	2/1/06	2/8/06	2/15/06	3/1/06	3/15/06	3/29/06	4/12/06	4/26/06	5/10/06	5/24/06	6/7/06	6/21/06	7/5/06	7/19/06	8/2/06
"ON" hrs.	0.0	151.2	302.4	453.6	604.8	756.0	907.2	1209.6	1512.0	1814.4	2116.8	2419.2	2721.6	3024.0	3326.4	3628.8	3931.2	4233.6	4536.0
<b>Lamp Cell</b>																			
H3	54.00	52.83	52.54	52.34	50.80	50.64	49.58	49.31	48.59	46.27	46.39	46.11	45.04	44.95	45.03	43.86	43.29	42.63	42.57
I3	50.70	49.46	49.14	48.97	47.64	47.18	46.33	46.34	45.63	43.34	43.43	42.97	42.19	41.82	41.52	40.58	40.68	40.43	40.27
I4	53.30	51.24	50.29	49.51	47.89	47.01	45.98	46.01	46.01	43.09	43.27	42.78	41.89	41.60	41.89	41.38	40.65	40.24	40.16
I5	54.36	52.45	51.46	50.60	49.02	48.51	47.70	47.62	47.31	45.02	44.34	44.78	43.14	43.37	44.19	42.09	42.15	40.94	40.83
I6	53.39	52.51	51.26	51.22	50.54	49.64	49.36	48.74	47.77	46.25	46.58	45.95	45.33	45.21	45.59	44.68	43.59	42.98	42.79
I7	49.30	47.75	47.31	46.79	45.75	45.44	43.93	44.05	43.14	40.23	40.08	39.13	39.08	39.23	39.39	39.99	38.38	36.44	36.37
I8	46.15	45.55	45.02	44.01	42.78	42.98	41.50	42.10	40.51	38.79	39.16	38.11	37.96	38.14	36.78	37.19	36.81	35.29	35.23
I9	53.21	51.47	50.82	49.85	48.02	47.78	46.43	46.31	46.16	43.52	42.98	43.12	42.35	41.95	42.24	42.10	40.97	40.30	40.60
H9	49.39	47.62	46.80	46.02	44.06	43.70	42.65	42.81	41.93	39.88	39.60	39.05	38.25	38.93	38.63	38.05	37.79	36.87	37.35
H7	53.45	52.11	51.78	50.97	49.78	49.18	48.09	48.18	47.64	45.00	44.97	44.77	44.04	44.23	44.46	43.77	43.62	42.74	42.88
<b>Average</b>	51.7	50.3	49.6	49.0	47.6	47.2	46.2	46.1	45.5	43.1	43.1	42.7	41.9	41.9	42.0	41.4	40.8	39.9	39.9
<b>Average Lumen Maint.</b>	100.0%	97.2%	96.0%	94.8%	92.1%	91.3%	89.2%	89.2%	87.9%	83.4%	83.3%	82.5%	81.1%	81.1%	81.1%	80.0%	78.9%	77.1%	77.2%

LUMEN MAINTENANCE (values in fc) continued																			
Date	8/16/06	8/30/06	9/13/06	9/27/06	10/11/06	10/25/06	11/8/06	11/22/06	12/6/06	12/20/06	1/3/07	1/17/07	1/31/07	2/14/07	2/28/07	3/14/07	3/28/07	4/11/07	4/25/07
"ON" hrs.	4838.4	5140.8	5443.2	5745.6	6048.0	6350.4	6652.8	6955.2	7257.6	7560.0	7862.4	8164.8	8467.2	8769.6	9072.0	9374.4	9676.8	9979.2	10281.6
<b>Lamp Cell</b>																			
H3	41.94	41.82	42.08	42.16	43.41	43.78	43.25	43.41	43.20	42.76	43.24	44.12	43.61	43.39	44.39	42.53	42.64	42.11	41.58
I3	40.03	39.39	38.85	38.59	38.84	38.94	37.74	38.48	38.42	38.19	38.70	38.37	39.84	39.48	39.50	38.43	38.11	38.02	38.26
I4	39.90	39.73	39.17	38.93	39.41	39.03	38.42	38.71	38.58	38.82	37.97	38.80	38.31	38.21	38.28	38.35	38.31	38.62	38.21
I5	40.98	40.65	40.36	39.71	40.88	40.92	40.24	40.70	40.50	40.58	40.00	40.60	40.98	40.93	40.83	39.42	39.26	39.78	38.85
I6	42.65	42.48	42.37	42.52	42.21	42.08	41.65	41.80	42.57	43.02	42.75	43.41	43.94	42.90	43.14	41.98	42.05	41.66	42.01
I7	36.79	36.40	36.04	35.40	36.36	36.55	35.73	35.43	35.83	36.12	35.25	36.34	36.07	35.46	35.56	34.44	34.18	34.09	33.71
I8	34.51	35.41	33.94	33.91	34.02	35.32	36.16	35.93	36.15	35.76	35.31	35.73	35.58	34.75	36.03	33.53	33.37	33.75	32.79
I9	39.35	40.20	39.13	39.22	39.90	40.11	39.50	38.93	39.51	39.85	38.72	39.80	39.07	39.52	40.84	38.71	38.00	38.66	38.40
H9	37.01	36.18	36.25	34.87	35.37	35.32	36.01	35.76	35.35	35.64	35.03	37.21	36.73	36.97	36.97	35.08	35.45	35.19	35.43
H7	42.60	42.06	41.69	41.42	42.02	41.40	40.95	40.62	41.41	42.11	41.30	42.05	42.98	41.85	43.29	41.91	41.34	41.49	41.08
<b>Average</b>	39.6	39.4	39.0	38.7	39.2	39.3	39.0	39.0	39.2	39.3	38.8	39.6	39.7	39.3	39.9	38.4	38.3	38.3	38.0
<b>Average Lumen Maint.</b>	76.5%	76.3%	75.4%	74.8%	75.9%	76.1%	75.4%	75.4%	75.7%	76.0%	75.1%	76.7%	76.8%	76.1%	77.1%	74.3%	74.0%	74.2%	73.6%

**Comments:**

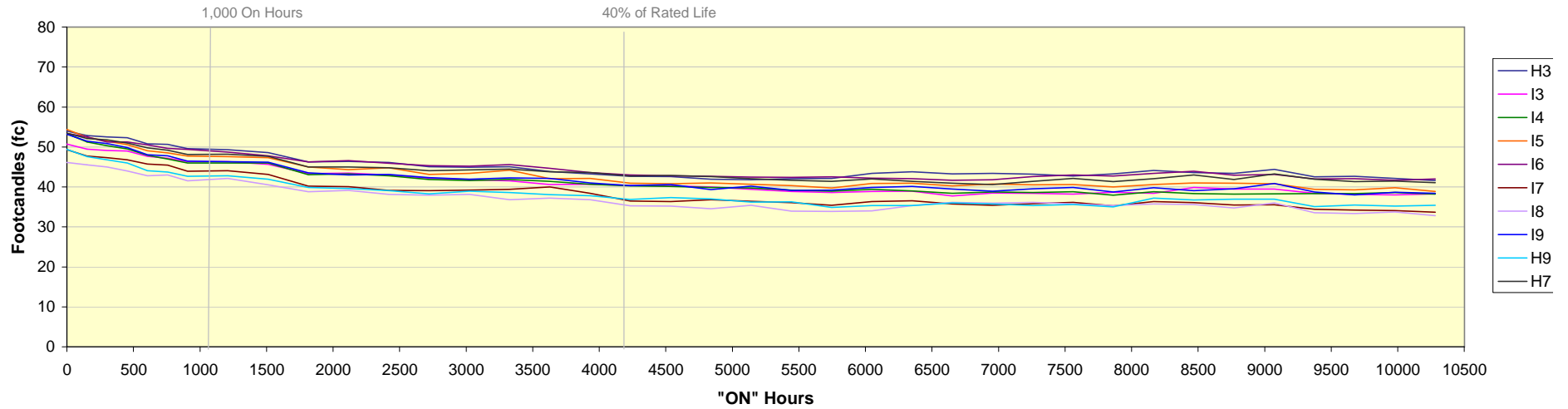
Successfully completed 10,000 hours Elevated Temperature Life Testing



Manufacturer: GE  
Lamp Model: FLE26/2/R40XL  
Test Facility: Luminaire Testing Laboratory, Allentown, PA  
Date Provided: 10/1/2007

Lumen Maintenance (interpolated)	
Rated Life	10,000
1000 hr.	89.23%
40% of Rated Life	4000
	78.47%

### Individual Lamp Illuminance and Life



### Average Lumen Maintenance

