

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1034533

Luminaire Tested: S125DIW-B375D770UB2750-4F0-XX-W2A-D_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034533
REPORT IS A COMBINATION OF REPORTS P1003665 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B375D770UB2750-4F0-XX-W2A-D_5000K
Description: Define 5 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

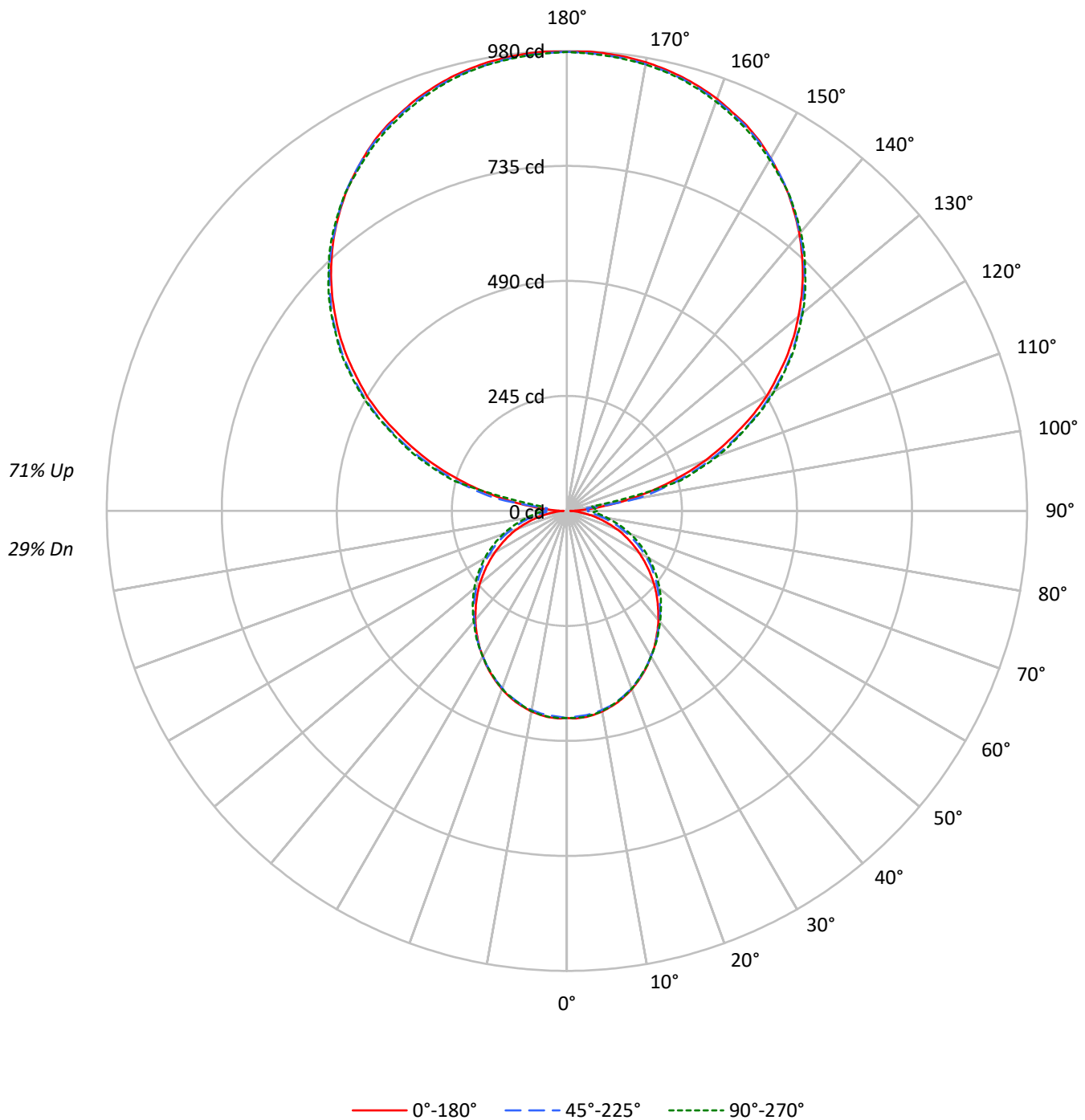
Lumens per Lamp: N/A
Luminaire Lumens: 4372.0 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 36.2
Input Voltage (V):
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: 24 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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	102	102	102	102	92	92	92	92	72	72	72	54	54	54	37	37	37	37	37	29
1	93	88	84	81	83	79	76	73	62	60	58	47	45	44	32	31	30	30	30	24
2	84	77	71	66	75	69	64	59	54	51	48	41	38	36	28	27	25	25	25	20
3	77	67	60	54	68	61	54	49	48	43	40	36	33	30	25	23	21	21	21	16
4	70	59	52	46	62	53	47	42	42	37	34	32	28	26	22	20	18	18	18	14
5	64	53	45	39	57	47	41	35	38	33	29	28	25	22	20	18	16	16	16	12
6	59	47	39	33	53	42	36	31	34	29	25	25	22	19	18	16	14	14	14	11
7	54	42	35	29	48	38	31	27	30	25	22	23	20	17	16	14	12	12	12	9
8	50	38	31	26	45	35	28	23	28	23	19	21	18	15	15	13	11	11	11	8
9	47	35	28	23	42	32	25	21	25	20	17	19	16	13	14	11	10	10	10	7
10	44	32	25	20	39	29	23	18	23	18	15	18	14	12	13	10	9	9	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2827	2827	2827
5°	2832	2768	2775
10°	2811	2712	2704
15°	2777	2646	2616
20°	2730	2566	2530
25°	2676	2482	2425
30°	2609	2390	2330
35°	2547	2305	2242
40°	2485	2216	2153
45°	2413	2138	2074
50°	2345	2054	2002
55°	2263	1974	1919
60°	2173	1882	1833
65°	2079	1786	1736
70°	1972	1657	1636
75°	1802	1530	1514
80°	1580	1375	1378
85°	1361	1251	1308

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 2413 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.8	1.0
10°-20°	118.5	2.7
20°-30°	176.3	4.0
30°-40°	208.8	4.8
40°-50°	215.8	4.9
50°-60°	198.8	4.5
60°-70°	160.7	3.7
70°-80°	107.6	2.5
80°-90°	57.0	1.3
90°-100°	64.5	1.5
100°-110°	243.8	5.6
110°-120°	412.8	9.4
120°-130°	518.8	11.9
130°-140°	552.4	12.6
140°-150°	515.6	11.8
150°-160°	416.5	9.5
160°-170°	269.4	6.2
170°-180°	92.9	2.1
0°-30°	336.6	7.7
0°-40°	545.3	12.5
0°-60°	960.0	22.0
0°-90°	1285.3	29.4
90°-120°	721.1	16.5
90°-150°	2308.0	52.8
90°-180°	3087.0	70.6
0°-180°	4372.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	441	441	441	441	441	
5°	441	440	437	441	440	42
15°	421	422	419	421	420	119
25°	383	384	382	383	381	176
35°	331	334	333	334	334	207
45°	273	278	280	283	283	211
55°	210	217	224	228	230	188
65°	144	154	165	171	173	143
75°	80	91	105	113	116	84
85°	24	38	53	63	66	25
90°	8	27	47	61	66	7
95°	47	56	43	56	59	55
105°	217	227	240	248	251	230
115°	403	409	421	426	424	399
125°	571	575	584	588	588	510
135°	710	714	716	720	718	548
145°	823	824	824	827	824	515
155°	906	902	903	905	900	417
165°	956	952	952	957	951	270
175°	978	973	974	980	973	93
180°	978	978	978	978	978	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	441.3	441.3	441.3	441.3	441.3
2.5°	442.6	441.7	438.7	441.7	441.3
5°	441.3	440.4	437.4	440.8	440.4
7.5°	438.2	437.8	434.8	437.8	437.4
10°	433.9	433.9	430.5	433.5	433.1
12.5°	427.9	428.3	425.7	427.9	426.6
15°	421.4	421.8	418.8	421.4	419.6
17.5°	413.2	414.0	411.0	413.2	411.9
20°	404.1	404.9	401.9	403.2	403.2
22.5°	393.7	395.4	392.0	393.7	392.4
25°	382.9	384.2	381.6	383.3	381.1
27.5°	371.2	372.9	369.9	371.2	370.3
30°	357.8	360.4	357.8	358.6	358.2
32.5°	345.7	347.8	346.1	347.0	346.5
35°	331.4	334.4	333.1	334.4	334.4
37.5°	317.5	320.1	319.7	321.4	321.0
40°	303.3	306.7	306.3	308.0	308.9
42.5°	287.7	292.5	293.8	295.9	295.9
45°	273.0	277.7	279.9	282.9	283.4
47.5°	257.8	262.2	265.6	270.0	270.8
50°	242.3	247.0	251.8	256.5	257.8
52.5°	225.8	231.9	237.9	243.1	244.0
55°	209.8	216.7	223.7	228.4	230.2
57.5°	193.4	201.6	209.4	214.6	215.9
60°	176.9	185.6	194.2	200.7	202.0
62.5°	160.9	169.6	179.1	186.5	188.2
65°	144.5	154.4	164.8	171.3	173.0
67.5°	129.4	138.9	149.3	157.0	159.2
70°	112.5	122.4	133.7	141.9	144.5
72.5°	96.0	106.4	119.0	128.1	129.8
75°	79.6	90.9	104.7	113.3	115.5
77.5°	63.6	76.6	89.6	99.1	100.8
80°	48.9	61.9	76.6	86.1	87.8
82.5°	35.5	49.3	64.5	73.5	77.0
85°	23.8	38.1	53.2	62.7	66.2
87.5°	15.1	29.0	43.7	53.6	56.7
90°	7.6	27.3	47.1	60.6	65.9
92.5°	19.9	25.8	45.3	58.5	62.2
95°	46.9	56.0	43.2	56.3	59.3
97.5°	82.8	97.5	42.9	53.4	57.2
100°	125.8	137.0	153.8	54.9	54.6
102.5°	169.6	180.7	195.6	205.7	147.4
105°	217.0	226.8	239.8	248.4	250.8
107.5°	265.9	271.9	285.9	295.3	295.0
110°	313.2	318.4	332.0	338.1	341.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	358.2	364.2	376.7	381.6	383.1
115°	402.7	409.3	421.4	426.3	424.5
117.5°	449.4	451.5	465.2	468.3	469.8
120°	492.9	493.5	505.6	511.5	510.5
122.5°	530.8	534.9	545.2	550.6	548.9
125°	570.7	575.4	584.1	588.1	588.0
127.5°	608.7	611.9	618.5	623.6	620.4
130°	643.5	646.7	653.4	657.4	655.8
132.5°	677.9	682.2	684.4	690.4	688.5
135°	710.5	714.3	716.0	720.2	717.9
137.5°	740.9	744.8	745.1	750.3	748.4
140°	770.2	771.6	771.4	777.5	775.0
142.5°	797.0	797.3	798.8	802.7	800.0
145°	823.1	824.1	824.1	827.0	824.4
147.5°	845.9	845.9	846.6	848.2	843.9
150°	867.6	866.2	867.6	869.1	863.7
152.5°	888.6	885.0	886.5	887.9	882.8
155°	906.0	901.7	903.1	905.3	899.5
157.5°	919.8	917.6	917.6	919.8	914.0
160°	934.3	929.9	930.7	933.6	927.8
162.5°	945.9	941.5	942.3	946.6	940.1
165°	956.0	951.7	952.4	956.8	951.0
167.5°	964.0	959.7	960.4	965.5	958.9
170°	970.5	965.5	966.2	972.0	965.5
172.5°	974.9	969.8	971.3	976.3	969.8
175°	977.8	973.4	974.2	980.0	973.4
177.5°	980.0	975.6	976.3	981.4	975.6
180°	977.8	977.8	977.8	977.8	977.8

(END OF REPORT)