

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: P1034501

Luminaire Tested: S125DIW-B375D1560UB2750-4F0-XX-W2A-D_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034501
REPORT IS A COMBINATION OF REPORTS P1003530 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B375D1560UB2750-4F0-XX-W2A-D_3000K
Description: Define 5 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

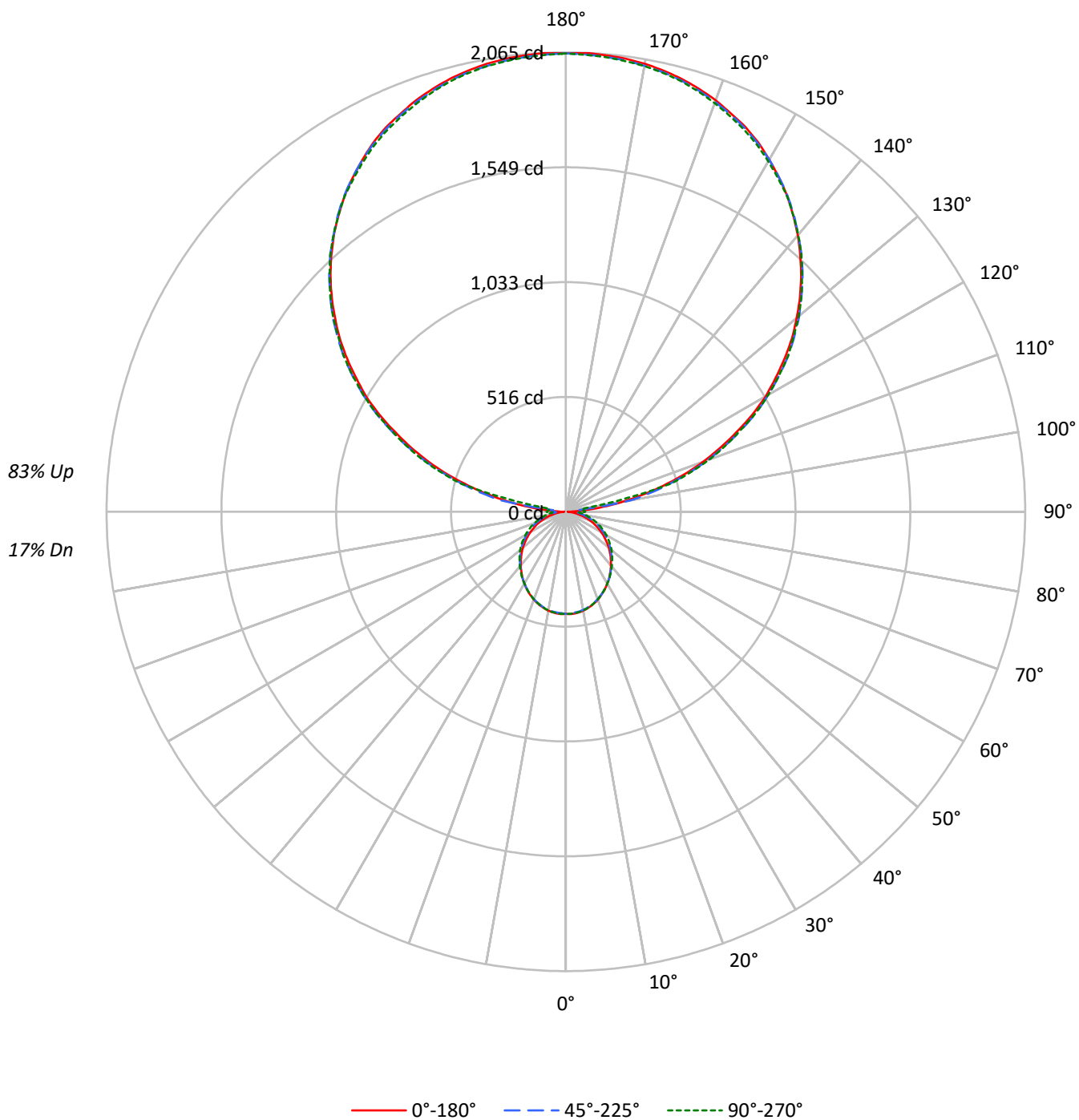
Lumens per Lamp: N/A
Luminaire Lumens: 7754.2 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 65.2
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					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	99	99	99	99	87	87	87	87	65	65	65	45	45	45	26	26	26	26	26	26
1	90	86	82	79	79	76	73	70	56	54	53	39	38	37	23	22	21	21	21	21
2	82	75	69	64	72	66	61	57	49	46	43	34	32	30	20	19	18	18	18	18
3	75	66	59	53	65	58	52	47	43	39	36	30	27	25	17	16	15	15	15	15
4	68	58	50	45	60	51	45	40	38	34	31	26	24	22	15	14	13	13	13	13
5	62	51	44	38	55	45	39	34	34	30	26	24	21	19	14	12	11	11	11	11
6	57	46	38	33	50	40	34	29	30	26	23	21	18	16	12	11	10	10	10	10
7	53	41	33	28	46	36	30	25	27	23	20	19	16	14	11	10	9	9	9	9
8	49	37	30	25	43	33	27	22	25	20	17	17	14	12	10	9	8	8	8	8
9	45	34	26	22	40	30	24	20	23	18	15	16	13	11	10	8	7	7	7	7
10	42	31	24	19	37	27	21	17	21	16	14	15	12	10	9	7	6	6	6	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2941	2941	2941
5°	2946	2879	2886
10°	2924	2821	2813
15°	2888	2752	2722
20°	2840	2670	2632
25°	2783	2582	2523
30°	2714	2487	2423
35°	2650	2398	2332
40°	2585	2305	2240
45°	2511	2225	2157
50°	2439	2137	2082
55°	2354	2054	1996
60°	2261	1959	1907
65°	2163	1859	1806
70°	2051	1724	1702
75°	1875	1591	1576
80°	1645	1431	1435
85°	1418	1303	1361

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2511 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.4	0.6
10°-20°	123.3	1.6
20°-30°	183.4	2.4
30°-40°	217.2	2.8
40°-50°	224.5	2.9
50°-60°	206.8	2.7
60°-70°	167.2	2.2
70°-80°	111.9	1.4
80°-90°	60.9	0.8
90°-100°	102.5	1.3
100°-110°	489.0	6.3
110°-120°	853.5	11.0
120°-130°	1083.9	14.0
130°-140°	1160.0	15.0
140°-150°	1085.7	14.0
150°-160°	877.6	11.3
160°-170°	567.6	7.3
170°-180°	195.7	2.5
0°-30°	350.1	4.5
0°-40°	567.3	7.3
0°-60°	998.6	12.9
0°-90°	1338.6	17.3
90°-120°	1445.0	18.6
90°-150°	4774.7	61.6
90°-180°	6416.0	82.7
0°-180°	7754.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	459	459	459	459	459	
5°	459	458	455	459	458	44
15°	438	439	436	438	436	124
25°	398	400	397	399	396	183
35°	345	348	346	348	348	216
45°	284	289	291	294	295	219
55°	218	226	233	238	239	195
65°	150	161	172	178	180	149
75°	83	94	109	118	120	88
85°	25	40	55	65	69	26
90°	9	35	61	79	87	9
95°	93	100	57	75	78	111
105°	453	466	480	489	490	480
115°	846	857	870	872	865	839
125°	1201	1211	1220	1221	1219	1073
135°	1496	1505	1505	1508	1501	1153
145°	1734	1737	1737	1740	1733	1084
155°	1909	1900	1903	1908	1895	880
165°	2014	2005	2007	2016	2004	569
175°	2060	2051	2053	2065	2051	196
180°	2060	2060	2060	2060	2060	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	459.0	459.0	459.0	459.0	459.0
2.5°	460.4	459.5	456.3	459.5	459.0
5°	459.0	458.1	455.0	458.6	458.1
7.5°	455.9	455.4	452.3	455.4	455.0
10°	451.4	451.4	447.8	450.9	450.5
12.5°	445.1	445.5	442.8	445.1	443.7
15°	438.3	438.8	435.6	438.3	436.5
17.5°	429.8	430.7	427.5	429.8	428.4
20°	420.3	421.2	418.1	419.4	419.4
22.5°	409.5	411.3	407.7	409.5	408.2
25°	398.3	399.6	396.9	398.7	396.5
27.5°	386.1	387.9	384.8	386.1	385.2
30°	372.2	374.9	372.2	373.1	372.6
32.5°	359.6	361.8	360.0	360.9	360.5
35°	344.7	347.9	346.5	347.9	347.9
37.5°	330.3	333.0	332.6	334.4	333.9
40°	315.5	319.1	318.6	320.4	321.3
42.5°	299.3	304.2	305.6	307.8	307.8
45°	284.0	288.9	291.2	294.3	294.8
47.5°	268.2	272.7	276.3	280.8	281.7
50°	252.0	257.0	261.9	266.9	268.2
52.5°	234.9	241.2	247.5	252.9	253.8
55°	218.3	225.5	232.7	237.6	239.4
57.5°	201.2	209.7	217.8	223.2	224.6
60°	184.1	193.1	202.1	208.8	210.2
62.5°	167.4	176.4	186.3	194.0	195.8
65°	150.3	160.7	171.5	178.2	180.0
67.5°	134.6	144.5	155.3	163.4	165.6
70°	117.0	127.4	139.1	147.6	150.3
72.5°	99.9	110.7	123.8	133.2	135.0
75°	82.8	94.5	108.9	117.9	120.2
77.5°	66.2	79.7	93.2	103.1	104.9
80°	50.9	64.4	79.7	89.6	91.4
82.5°	36.9	51.3	67.1	76.5	80.1
85°	24.8	39.6	55.4	65.3	68.9
87.5°	15.8	30.2	45.5	55.8	59.0
90°	8.7	35.3	61.3	79.4	87.1
92.5°	35.3	34.7	59.5	77.1	81.8
95°	93.0	100.1	57.3	74.9	78.0
97.5°	168.8	188.8	58.6	71.0	75.8
100°	260.1	274.0	294.6	76.5	73.1
102.5°	352.7	367.4	384.4	396.4	270.9
105°	453.1	466.4	479.9	488.9	490.5
107.5°	556.5	562.8	578.9	589.5	586.1
110°	656.9	662.3	677.9	681.9	686.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	751.6	760.2	773.9	775.9	775.9
115°	845.8	856.6	869.8	871.8	865.4
117.5°	944.7	946.9	964.3	962.7	962.8
120°	1036.3	1036.1	1051.0	1055.6	1050.7
122.5°	1116.7	1124.9	1136.3	1140.4	1134.0
125°	1200.7	1211.0	1220.0	1221.1	1218.7
127.5°	1281.3	1288.4	1294.6	1298.2	1288.7
130°	1354.6	1361.7	1369.6	1371.3	1365.9
132.5°	1427.4	1436.6	1436.5	1442.8	1437.0
135°	1496.1	1504.9	1504.9	1507.8	1500.8
137.5°	1560.3	1569.1	1567.8	1573.2	1567.4
140°	1622.5	1625.6	1624.4	1632.5	1625.1
142.5°	1679.0	1680.0	1683.1	1687.2	1679.8
145°	1734.0	1736.6	1736.6	1740.4	1733.0
147.5°	1782.4	1782.4	1783.9	1786.3	1776.5
150°	1828.2	1825.1	1828.2	1831.2	1819.5
152.5°	1872.5	1864.8	1867.9	1871.0	1860.3
155°	1909.1	1900.0	1903.0	1907.6	1895.4
157.5°	1938.2	1933.6	1933.6	1938.2	1925.9
160°	1968.7	1959.5	1961.1	1967.2	1955.0
162.5°	1993.1	1984.0	1985.5	1994.7	1980.9
165°	2014.5	2005.4	2006.9	2016.1	2003.8
167.5°	2031.3	2022.2	2023.7	2034.4	2020.6
170°	2045.1	2034.4	2035.9	2048.1	2034.4
172.5°	2054.2	2043.5	2046.6	2057.3	2043.5
175°	2060.3	2051.2	2052.7	2064.9	2051.2
177.5°	2064.9	2055.8	2057.3	2068.0	2055.8
180°	2060.3	2060.3	2060.3	2060.3	2060.3

(END OF REPORT)