

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: P1034816

Luminaire Tested: S125RDIW-B375D1560UB2750-4F0-XX-W2A-F_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034816
REPORT IS A COMBINATION OF REPORTS P1006463 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B375D1560UB2750-4F0-XX-W2A-F_3000K
Description: Define 5 Regressed Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

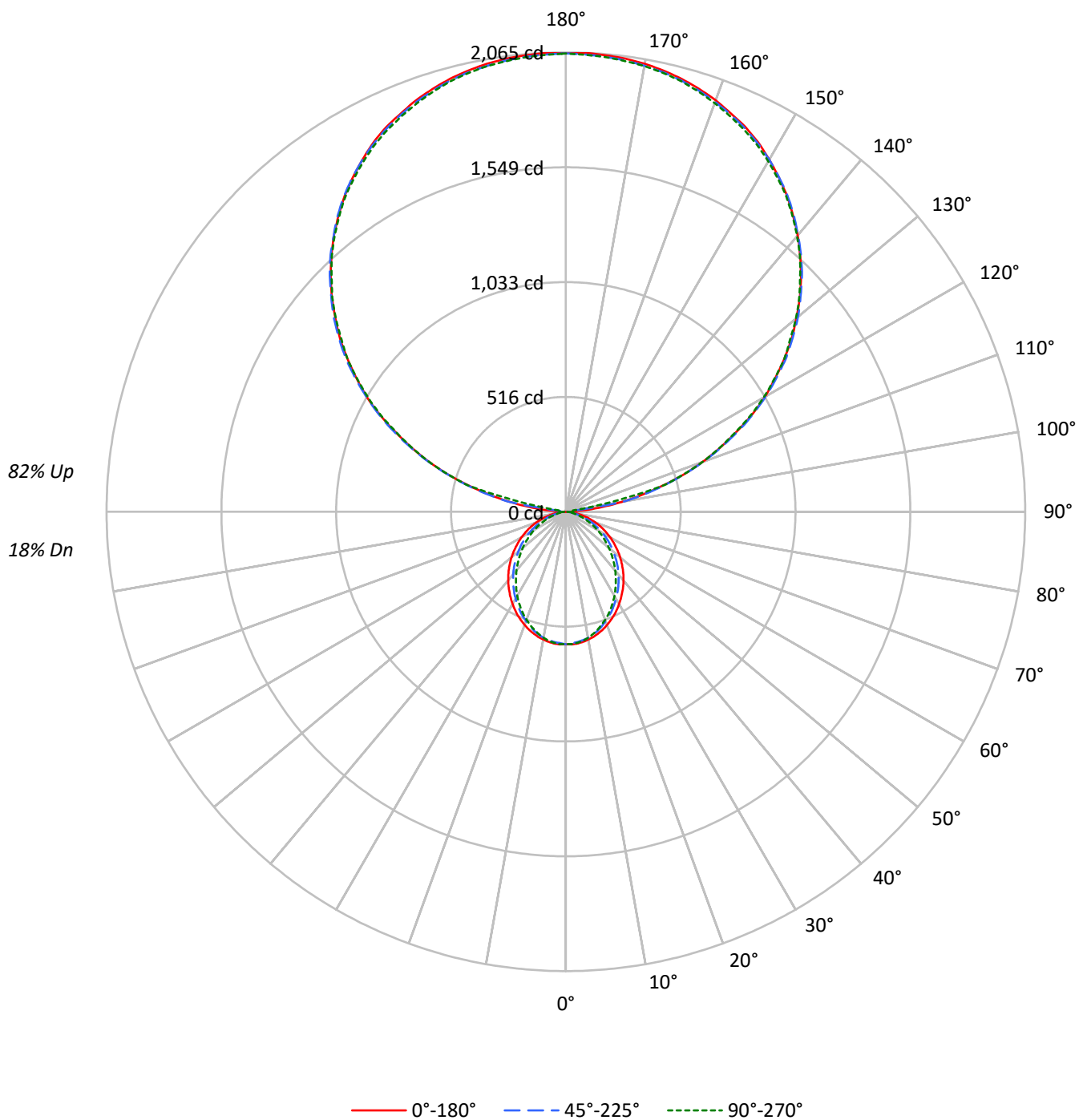
Lumens per Lamp: N/A
Luminaire Lumens: 7739.0 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	100	100	100	100	88	88	88	88	66	66	66	45	45	45	27	27	27	15	15	15
1	91	87	83	80	80	76	73	71	57	56	54	40	39	38	24	23	23	15	15	15
2	83	76	70	65	73	67	62	58	50	47	45	35	33	32	21	20	19	13	13	13
3	75	66	60	54	66	59	53	48	44	41	37	31	29	27	19	18	16	11	11	11
4	69	59	51	46	60	52	46	41	39	35	32	28	25	23	17	15	14	10	10	10
5	63	52	45	39	55	46	40	35	35	31	27	25	22	20	15	14	12	8	8	8
6	58	47	39	33	51	41	35	30	31	27	24	22	19	17	14	12	11	7	7	7
7	53	42	34	29	47	37	31	26	28	24	21	20	17	15	12	11	10	7	7	7
8	49	38	31	25	43	34	27	23	26	21	18	18	15	13	11	10	9	6	6	6
9	46	34	27	22	40	31	25	20	23	19	16	17	14	12	10	9	8	5	5	5
10	43	31	24	20	38	28	22	18	22	17	14	15	13	11	10	8	7	5	5	5

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3815	3815	3815
5°	3816	3721	3727
10°	3779	3627	3595
15°	3725	3495	3421
20°	3659	3338	3240
25°	3583	3184	3045
30°	3490	3014	2840
35°	3395	2842	2623
40°	3305	2665	2411
45°	3197	2474	2189
50°	3087	2271	1963
55°	2959	2072	1729
60°	2829	1844	1485
65°	2673	1589	1223
70°	2491	1294	963
75°	2242	973	701
80°	1890	630	473
85°	1412	339	267

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 3197 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.0	0.7
10°-20°	156.6	2.0
20°-30°	227.1	2.9
30°-40°	258.7	3.3
40°-50°	252.2	3.3
50°-60°	212.2	2.7
60°-70°	148.7	1.9
70°-80°	76.3	1.0
80°-90°	22.1	0.3
90°-100°	69.9	0.9
100°-110°	465.0	6.0
110°-120°	837.4	10.8
120°-130°	1074.8	13.9
130°-140°	1156.0	14.9
140°-150°	1084.9	14.0
150°-160°	877.6	11.3
160°-170°	567.6	7.3
170°-180°	195.7	2.5
0°-30°	439.8	5.7
0°-40°	698.5	9.0
0°-60°	1163.0	15.0
0°-90°	1410.0	18.2
90°-120°	1372.3	17.7
90°-150°	4688.0	60.6
90°-180°	6329.0	81.8
0°-180°	7739.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	596	596	596	596	596	
5°	595	593	588	592	592	56
15°	565	563	553	553	549	159
25°	513	506	489	484	479	236
35°	442	431	411	398	391	277
45°	362	349	324	306	299	279
55°	274	260	235	214	207	245
65°	186	170	147	129	122	184
75°	99	86	67	57	54	105
85°	25	17	14	14	14	27
90°	2	14	24	32	37	6
95°	87	82	24	32	32	107
105°	449	455	455	455	454	476
115°	843	851	852	846	837	836
125°	1199	1210	1210	1204	1199	1071
135°	1495	1504	1501	1498	1489	1153
145°	1734	1737	1737	1738	1729	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°	595.5	595.5	595.5	595.5	595.5
2.5°	596.9	595.5	591.0	595.5	595.1
5°	594.6	592.8	587.9	592.4	591.5
7.5°	590.1	588.3	582.5	586.1	585.2
10°	583.4	582.0	575.7	577.1	575.7
12.5°	575.7	573.9	564.9	565.8	563.6
15°	565.4	562.7	553.2	552.8	548.7
17.5°	554.6	550.5	539.3	537.0	533.9
20°	541.5	537.0	522.7	520.4	516.4
22.5°	527.2	522.7	507.4	502.4	499.3
25°	512.8	506.0	489.4	483.5	478.6
27.5°	496.6	488.5	470.9	463.3	458.3
30°	478.6	470.0	451.1	440.8	436.7
32.5°	461.0	450.7	431.3	419.7	414.3
35°	441.7	430.9	410.7	397.6	391.3
37.5°	423.3	410.2	389.5	374.2	367.9
40°	403.5	390.0	368.4	351.3	345.9
42.5°	382.8	368.8	346.3	330.1	321.6
45°	361.6	348.6	323.8	305.9	299.1
47.5°	339.6	326.1	301.4	282.9	275.3
50°	318.9	304.1	278.4	259.5	252.8
52.5°	296.4	281.1	257.3	236.6	229.8
55°	274.4	260.0	234.8	214.5	207.4
57.5°	251.9	236.6	212.3	192.5	186.2
60°	230.3	214.5	190.3	170.5	163.7
62.5°	207.4	192.5	167.8	149.8	143.0
65°	185.8	170.5	146.6	128.6	121.9
67.5°	164.2	148.9	125.9	108.8	103.5
70°	142.1	126.8	104.4	90.4	85.0
72.5°	120.5	105.7	85.0	72.4	69.3
75°	99.0	85.5	66.6	56.7	53.5
77.5°	76.9	66.1	50.4	42.7	40.0
80°	58.5	47.7	35.1	31.0	30.1
82.5°	40.5	31.0	23.4	22.0	21.6
85°	24.7	16.6	14.4	13.9	13.5
87.5°	10.3	7.2	6.7	6.7	6.3
90°	1.5	13.7	24.4	32.1	36.7
92.5°	29.0	15.3	24.4	32.1	33.6
95°	87.1	82.5	24.4	32.1	32.1
97.5°	163.4	172.6	27.5	30.5	32.1
100°	255.1	259.6	265.8	38.2	32.1
102.5°	348.2	354.3	357.4	360.4	232.2
105°	449.0	455.1	455.1	455.1	453.6
107.5°	552.9	552.9	555.9	557.5	551.4
110°	653.7	653.7	656.7	652.2	653.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	748.4	753.0	754.5	748.4	745.3
115°	843.1	850.7	852.2	846.1	837.0
117.5°	942.4	942.4	948.5	939.3	936.2
120°	1034.0	1032.5	1037.0	1034.0	1026.4
122.5°	1114.9	1122.6	1124.1	1121.0	1111.9
125°	1198.9	1209.6	1209.6	1203.5	1198.9
127.5°	1279.9	1287.5	1286.0	1282.9	1270.7
130°	1353.2	1360.8	1362.4	1357.8	1350.1
132.5°	1426.5	1435.7	1431.1	1431.1	1423.5
135°	1495.2	1504.4	1501.3	1498.3	1489.1
137.5°	1559.4	1568.6	1565.5	1565.5	1557.9
140°	1622.0	1625.1	1623.5	1626.6	1617.4
142.5°	1678.5	1680.0	1683.1	1683.1	1673.9
145°	1733.5	1736.6	1736.6	1738.1	1728.9
147.5°	1782.4	1782.4	1783.9	1785.4	1774.7
150°	1828.2	1825.1	1828.2	1831.2	1819.0
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)