

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: P1035299

Luminaire Tested: S125DIW-B375D1560UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035299
REPORT IS A COMBINATION OF REPORTS P1003545 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B375D1560UB30-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

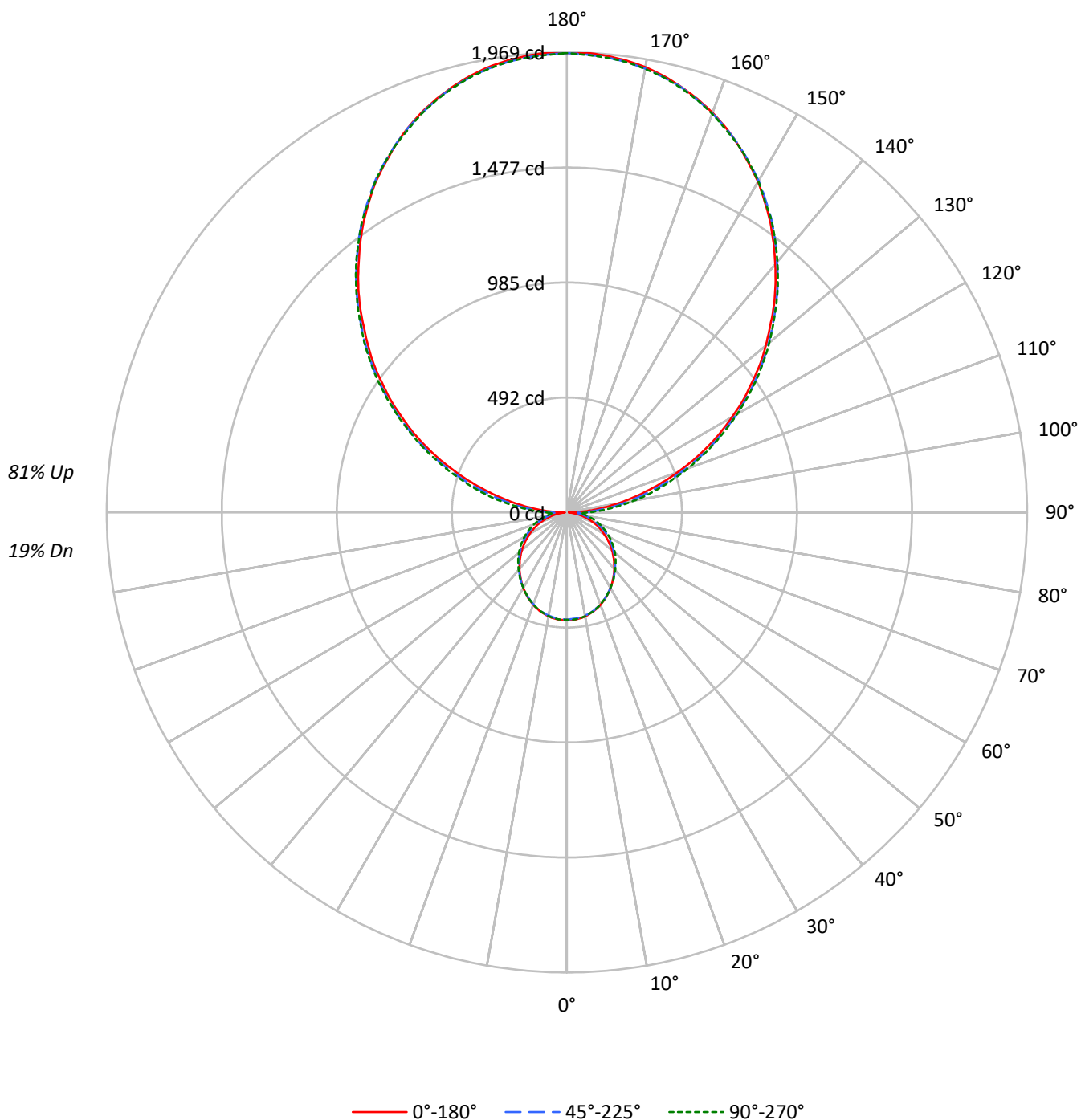
Lumens per Lamp: N/A
Luminaire Lumens: 6913.2 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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
RCR																	
0	100	100	100	100	88	88	88	88	66	66	66	46	46	46	28	28	28
1	91	86	83	79	80	76	73	70	57	55	54	40	39	38	24	24	23
2	82	75	69	64	72	66	62	57	50	47	44	35	33	31	21	20	19
3	75	66	59	53	66	58	52	48	44	40	37	31	28	26	19	17	16
4	68	58	51	45	60	51	45	40	39	35	31	27	25	22	17	15	14
5	63	52	44	38	55	46	39	34	35	30	27	24	21	19	15	13	12
6	58	46	38	33	50	41	34	29	31	26	23	22	19	17	13	12	10
7	53	41	34	28	47	37	30	26	28	23	20	20	17	15	12	10	9
8	49	37	30	25	43	33	27	22	25	21	18	18	15	13	11	9	8
9	45	34	27	22	40	30	24	20	23	19	16	16	14	11	10	9	7
10	42	31	24	19	37	27	22	17	21	17	14	15	12	10	9	8	7

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	1.8
20°-30°	183.4	2.7
30°-40°	217.2	3.1
40°-50°	224.5	3.2
50°-60°	206.8	3.0
60°-70°	167.2	2.4
70°-80°	111.9	1.6
80°-90°	60.9	0.9
90°-100°	163.4	2.4
100°-110°	412.5	6.0
110°-120°	674.9	9.8
120°-130°	876.4	12.7
130°-140°	975.8	14.1
140°-150°	953.4	13.8
150°-160°	800.2	11.6
160°-170°	531.9	7.7
170°-180°	186.1	2.7
0°-30°	350.1	5.1
0°-40°	567.3	8.2
0°-60°	998.6	14.4
0°-90°	1338.6	19.4
90°-120°	1250.7	18.1
90°-150°	4056.4	58.7
90°-180°	5575.0	80.6
0°-180°	6913.2	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	12
95°	105	120	151	171	178	109
105°	353	368	390	409	416	376
115°	662	672	686	693	694	655
125°	964	973	984	988	988	864
135°	1253	1261	1266	1272	1268	966
145°	1517	1523	1527	1530	1527	948
155°	1735	1735	1737	1743	1735	799
165°	1887	1884	1885	1891	1882	532
175°	1962	1956	1956	1965	1954	186
180°	1966	1966	1966	1966	1966	

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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	35.4	61.4	79.4	87.1
92.5°	52.2	73.0	102.4	123.0	129.3
95°	105.4	120.1	150.7	171.3	177.5
97.5°	158.4	170.8	207.1	225.7	230.4
100°	219.2	228.6	262.9	286.2	292.0
102.5°	284.5	300.8	322.3	346.6	353.9
105°	353.0	367.8	390.5	408.7	416.4
107.5°	427.5	441.4	462.2	475.8	478.5
110°	505.1	518.2	535.4	548.5	550.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	584.7	591.8	610.1	619.7	619.7
115°	662.2	671.6	686.3	692.9	694.1
117.5°	741.4	745.1	759.5	768.6	765.7
120°	814.9	823.8	835.7	843.3	839.9
122.5°	893.9	896.0	910.4	916.1	914.2
125°	964.3	973.1	983.6	987.8	988.4
127.5°	1042.0	1046.1	1055.3	1060.5	1060.1
130°	1110.8	1118.0	1127.3	1132.1	1131.3
132.5°	1179.2	1193.0	1195.9	1200.7	1197.9
135°	1252.6	1261.4	1266.0	1271.9	1268.0
137.5°	1321.5	1330.3	1335.1	1342.1	1336.2
140°	1386.9	1394.5	1399.5	1407.6	1401.7
142.5°	1452.7	1458.3	1464.4	1470.1	1464.2
145°	1517.0	1522.6	1527.2	1529.5	1526.7
147.5°	1576.1	1580.7	1583.8	1589.3	1577.9
150°	1635.8	1634.3	1640.4	1640.4	1637.9
152.5°	1684.8	1687.9	1689.4	1694.0	1687.9
155°	1735.3	1735.3	1736.8	1742.9	1735.3
157.5°	1781.2	1778.1	1779.7	1785.8	1775.1
160°	1821.0	1816.4	1817.9	1824.0	1816.4
162.5°	1856.2	1853.1	1853.1	1860.8	1851.6
165°	1886.8	1883.7	1885.3	1891.4	1882.2
167.5°	1914.3	1908.2	1908.2	1917.4	1908.2
170°	1935.8	1929.6	1929.6	1938.8	1928.1
172.5°	1951.1	1944.9	1944.9	1954.1	1944.9
175°	1961.8	1955.6	1955.6	1964.8	1954.1
177.5°	1969.4	1963.3	1961.8	1970.9	1960.2
180°	1966.4	1966.4	1966.4	1966.4	1966.4

(END OF REPORT)