

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: P1035287

Luminaire Tested: S125DIW-B375D1340UB50-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035287
REPORT IS A COMBINATION OF REPORTS P1003506 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B375D1340UB50-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

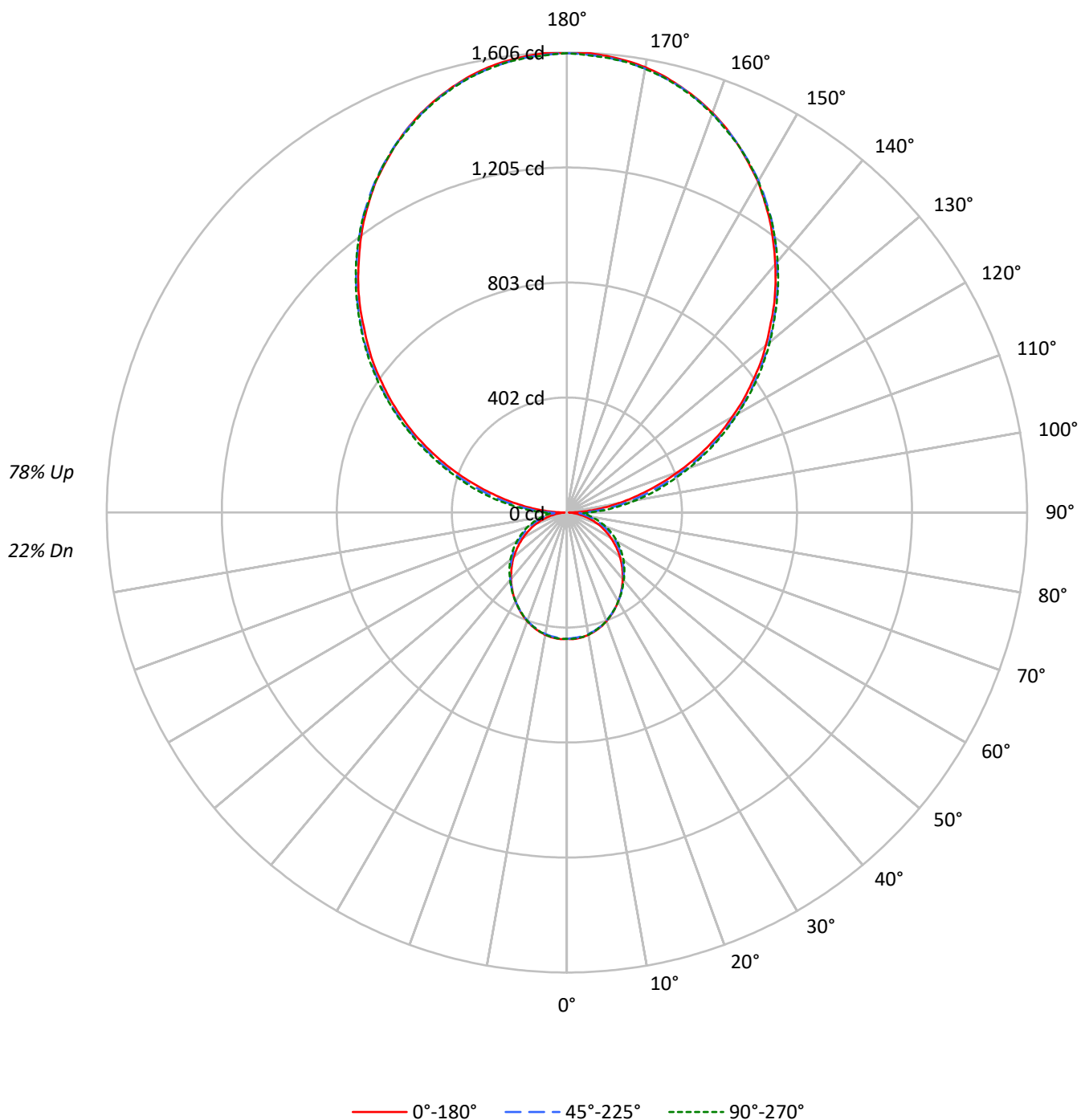
Lumens per Lamp: N/A
Luminaire Lumens: 5845.0 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 55.1
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	100	100	100	100	89	89	89	89	68	68	68	48	48	48	30	30	30	30	30	22
1	91	87	83	80	81	77	74	71	59	57	55	42	41	39	26	26	25	25	25	18
2	83	76	70	65	73	67	62	58	51	48	45	37	34	33	23	22	21	21	21	15
3	75	66	59	54	66	59	53	48	45	41	38	32	30	27	20	19	17	17	17	12
4	69	58	51	45	61	52	46	41	40	35	32	28	26	23	18	16	15	15	15	10
5	63	52	44	38	56	46	39	35	35	31	27	25	22	20	16	14	13	13	13	9
6	58	46	38	33	51	41	35	30	32	27	23	23	20	17	15	13	11	11	11	8
7	53	42	34	29	47	37	31	26	29	24	20	21	18	15	13	11	10	10	10	7
8	49	38	30	25	44	34	27	23	26	21	18	19	16	13	12	10	9	9	9	6
9	46	34	27	22	40	30	24	20	24	19	16	17	14	12	11	9	8	8	8	6
10	43	31	24	20	38	28	22	18	22	17	14	16	13	11	10	8	7	7	7	5

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	0.7
10°-20°	118.5	2.0
20°-30°	176.3	3.0
30°-40°	208.8	3.6
40°-50°	215.8	3.7
50°-60°	198.8	3.4
60°-70°	160.7	2.7
70°-80°	107.6	1.8
80°-90°	58.1	1.0
90°-100°	137.9	2.4
100°-110°	339.9	5.8
110°-120°	552.7	9.5
120°-130°	716.0	12.3
130°-140°	796.4	13.6
140°-150°	777.6	13.3
150°-160°	652.5	11.2
160°-170°	433.8	7.4
170°-180°	151.8	2.6
0°-30°	336.6	5.8
0°-40°	545.3	9.3
0°-60°	960.0	16.4
0°-90°	1286.3	22.0
90°-120°	1030.5	17.6
90°-150°	3320.6	56.8
90°-180°	4559.0	78.0
0°-180°	5845.0	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	32	56	72	78	10
95°	87	100	128	146	151	89
105°	288	302	322	338	345	308
115°	540	548	562	569	570	535
125°	787	794	804	808	809	705
135°	1022	1029	1033	1039	1036	788
145°	1237	1242	1245	1248	1246	773
155°	1415	1415	1416	1421	1415	652
165°	1539	1536	1538	1542	1535	434
175°	1600	1595	1595	1602	1594	152
180°	1604	1604	1604	1604	1604	

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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°	8.1	32.0	55.5	71.6	78.5
92.5°	43.5	62.3	88.6	106.9	112.4
95°	86.7	100.5	127.7	145.9	151.4
97.5°	130.0	141.6	173.4	189.9	194.2
100°	179.5	188.5	218.6	239.0	244.1
102.5°	232.7	247.1	266.9	287.9	294.3
105°	288.4	301.6	322.1	338.1	345.0
107.5°	349.2	361.4	380.3	392.6	395.2
110°	412.3	423.8	439.6	451.6	453.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	477.2	483.6	500.3	509.4	509.9
115°	540.5	548.5	562.2	568.8	570.2
117.5°	605.0	608.3	621.6	630.2	628.3
120°	664.9	672.4	683.5	690.9	688.5
122.5°	729.2	731.0	744.2	749.9	748.7
125°	786.7	793.7	803.7	808.1	808.9
127.5°	849.9	853.2	861.8	867.0	867.1
130°	906.1	911.9	920.4	925.2	924.8
132.5°	961.8	973.0	976.1	980.8	978.9
135°	1021.7	1028.7	1033.0	1038.6	1035.8
137.5°	1077.9	1084.9	1089.2	1095.6	1091.1
140°	1131.0	1137.3	1141.5	1148.7	1144.3
142.5°	1184.7	1189.3	1194.3	1199.4	1194.9
145°	1237.1	1241.7	1245.4	1247.6	1245.6
147.5°	1285.4	1289.1	1291.6	1296.3	1287.1
150°	1334.0	1332.8	1337.8	1337.8	1335.7
152.5°	1374.0	1376.5	1377.7	1381.5	1376.5
155°	1415.2	1415.2	1416.4	1421.4	1415.2
157.5°	1452.6	1450.1	1451.3	1456.3	1447.6
160°	1485.0	1481.3	1482.5	1487.5	1481.3
162.5°	1513.7	1511.2	1511.2	1517.5	1510.0
165°	1538.7	1536.2	1537.5	1542.4	1535.0
167.5°	1561.2	1556.2	1556.2	1563.7	1556.2
170°	1578.6	1573.6	1573.6	1581.1	1572.4
172.5°	1591.1	1586.1	1586.1	1593.6	1586.1
175°	1599.9	1594.9	1594.9	1602.3	1593.6
177.5°	1606.1	1601.1	1599.9	1607.3	1598.6
180°	1603.6	1603.6	1603.6	1603.6	1603.6

(END OF REPORT)