

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: P1009444

Luminaire Tested: S122DIP-B865D1080UB30-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009444
REPORT IS A COMBINATION OF REPORTS P984745 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B865D1080UB30-4F0-XX-W2A-D
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

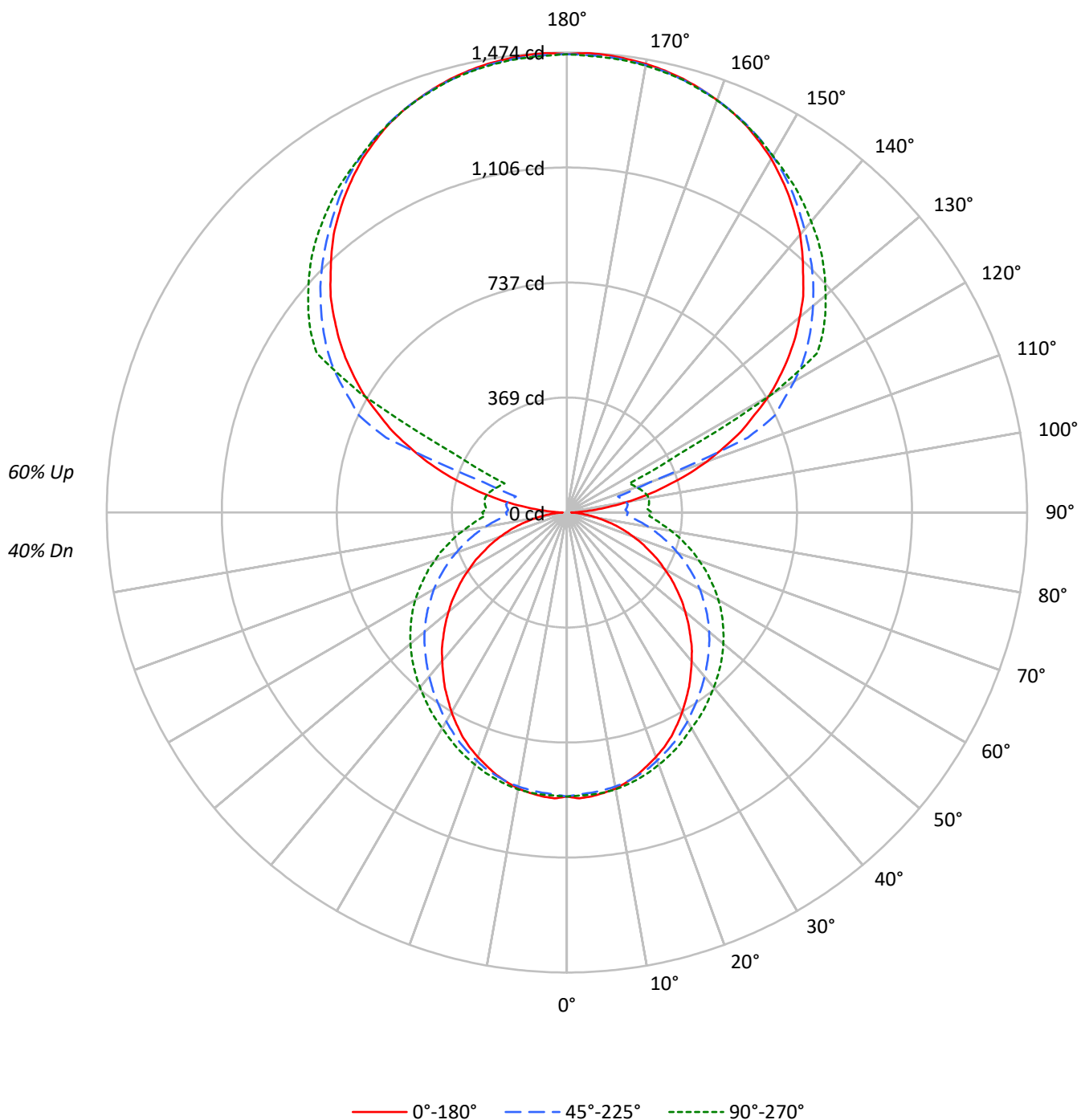
Lumens per Lamp: N/A
Luminaire Lumens: 7780.0 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 81.8
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	105	105	105	105	95	95	95	95	78	78	78	61	61	61	47	47	47	47	47	40
1	94	90	85	81	85	81	78	74	66	64	61	52	50	49	39	38	37	37	37	31
2	85	77	71	65	77	70	65	60	57	53	50	45	42	40	34	32	30	30	30	25
3	78	68	60	54	70	62	55	50	50	45	41	39	36	33	30	27	25	25	25	21
4	71	60	51	45	64	54	47	42	44	39	35	35	31	28	26	24	21	21	21	17
5	65	53	45	38	58	48	41	35	39	34	30	31	27	24	24	21	18	18	18	15
6	59	47	39	33	54	43	36	31	35	30	26	28	24	21	21	18	16	16	16	13
7	55	42	34	29	50	39	32	27	32	26	22	25	21	18	19	16	14	14	14	11
8	51	38	31	25	46	35	28	23	29	24	20	23	19	16	18	15	13	13	13	10
9	47	35	27	22	43	32	25	21	26	21	18	21	17	14	16	13	11	11	11	9
10	44	32	25	20	40	29	23	18	24	19	16	20	16	13	15	12	10	10	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14408	14408	14408
5°	14473	13793	13716
10°	14375	13315	13121
15°	14172	12822	12511
20°	13917	12303	11934
25°	13665	11806	11409
30°	13310	11300	10889
35°	12952	10814	10507
40°	12575	10392	10129
45°	12215	10011	9799
50°	11830	9659	9472
55°	11423	9285	9140
60°	10927	8895	8791
65°	10409	8448	8389
70°	9826	7969	7957
75°	9079	7486	7549
80°	7896	6986	7127
85°	6710	6516	6763

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 12215 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.3	1.1
10°-20°	247.5	3.2
20°-30°	375.0	4.8
30°-40°	456.6	5.9
40°-50°	491.3	6.3
50°-60°	477.1	6.1
60°-70°	416.7	5.4
70°-80°	320.7	4.1
80°-90°	217.4	2.8
90°-100°	196.6	2.5
100°-110°	288.7	3.7
110°-120°	550.1	7.1
120°-130°	833.7	10.7
130°-140°	860.0	11.1
140°-150°	786.6	10.1
150°-160°	630.1	8.1
160°-170°	406.0	5.2
170°-180°	139.7	1.8
0°-30°	708.7	9.1
0°-40°	1165.3	15.0
0°-60°	2133.7	27.4
0°-90°	3088.4	39.7
90°-120°	1035.4	13.3
90°-150°	3515.7	45.2
90°-180°	4692.0	60.3
0°-180°	7780.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	910	910	910	910	910	
5°	913	909	901	909	908	87
15°	871	873	873	885	884	245
25°	792	801	813	828	832	364
35°	682	704	730	758	768	426
45°	559	595	641	682	695	432
55°	429	476	545	592	609	383
65°	293	358	435	489	506	291
75°	162	236	320	377	394	172
85°	48	129	214	269	288	50
90°	14	102	195	254	271	13
95°	80	107	193	248	263	90
105°	330	400	178	236	255	353
115°	616	649	735	282	220	606
125°	866	880	943	986	1001	773
135°	1070	1087	1110	1148	1157	827
145°	1240	1239	1257	1272	1274	776
155°	1365	1356	1368	1375	1366	629
165°	1438	1432	1435	1443	1435	406
175°	1471	1464	1466	1474	1463	140
180°	1468	1468	1468	1468	1468	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	910.2	910.2	910.2	910.2	910.2
2.5°	916.8	912.8	903.6	910.2	907.6
5°	912.8	908.9	901.0	908.9	907.6
7.5°	906.2	903.6	897.0	906.2	904.9
10°	898.3	895.7	891.7	902.3	901.0
12.5°	885.1	886.5	883.8	894.4	893.1
15°	870.6	873.3	873.3	885.1	883.8
17.5°	852.2	857.4	861.4	873.3	873.3
20°	833.7	840.3	845.6	860.1	860.1
22.5°	813.9	821.8	829.7	844.2	846.9
25°	791.5	800.7	812.6	828.4	832.4
27.5°	765.1	779.6	792.8	812.6	815.2
30°	738.7	755.9	773.0	794.1	798.1
32.5°	709.7	729.5	750.6	775.6	783.6
35°	682.0	704.4	729.5	758.5	767.7
37.5°	651.6	676.7	708.4	740.0	749.3
40°	621.3	650.3	685.9	720.2	732.1
42.5°	592.3	621.3	663.5	701.8	713.6
45°	559.3	594.9	641.1	682.0	695.2
47.5°	527.7	565.9	618.7	660.9	675.4
50°	494.7	535.6	594.9	639.8	654.3
52.5°	463.0	506.5	569.9	616.0	631.9
55°	428.7	476.2	544.8	592.3	609.4
57.5°	395.7	448.5	517.1	568.5	585.7
60°	360.1	416.8	492.0	542.2	560.6
62.5°	328.5	387.8	463.0	517.1	534.2
65°	292.8	357.5	435.3	489.4	506.5
67.5°	261.2	328.5	407.6	461.7	480.2
70°	226.9	295.5	377.3	434.0	449.8
72.5°	195.2	266.5	349.6	405.0	424.8
75°	162.3	236.1	320.5	377.3	394.4
77.5°	130.6	207.1	292.8	349.6	368.0
80°	98.9	179.4	265.1	320.5	339.0
82.5°	72.6	151.7	238.8	294.2	311.3
85°	47.5	129.3	213.7	269.1	287.6
87.5°	29.0	108.2	192.6	246.7	263.8
90°	14.3	102.4	195.3	253.5	271.4
92.5°	38.5	104.1	187.8	241.3	258.2
95°	79.7	106.6	193.1	248.5	263.4
97.5°	133.5	103.2	196.7	248.7	265.5
100°	197.2	100.5	192.5	249.8	266.4
102.5°	266.1	307.4	185.4	244.6	262.3
105°	329.6	399.7	178.2	236.1	254.8
107.5°	405.0	463.3	171.1	227.7	246.5
110°	475.9	524.7	282.2	218.2	236.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	543.9	584.2	626.8	211.1	228.8
115°	616.2	648.7	734.6	282.3	220.3
117.5°	677.6	709.3	782.8	670.5	405.3
120°	747.7	768.8	840.8	890.4	761.5
122.5°	807.2	825.5	895.5	937.5	950.5
125°	866.3	880.2	942.6	985.7	1000.7
127.5°	921.6	935.2	986.7	1030.3	1043.3
130°	973.6	989.3	1028.7	1072.1	1081.6
132.5°	1026.8	1039.3	1070.8	1110.6	1120.2
135°	1070.1	1087.1	1109.8	1148.2	1156.6
137.5°	1116.8	1129.6	1146.8	1182.5	1188.5
140°	1162.5	1169.7	1184.0	1214.7	1217.4
142.5°	1200.8	1206.9	1220.7	1245.0	1246.3
145°	1239.8	1238.8	1256.8	1272.2	1273.5
147.5°	1274.9	1271.7	1289.8	1296.4	1296.1
150°	1308.9	1301.5	1318.5	1324.8	1319.5
152.5°	1337.6	1329.1	1345.0	1351.4	1344.0
155°	1365.2	1355.6	1368.4	1374.8	1366.3
157.5°	1387.5	1379.0	1388.6	1396.0	1387.5
160°	1406.6	1400.3	1406.6	1413.0	1405.6
162.5°	1423.6	1417.3	1422.6	1430.0	1420.4
165°	1438.5	1432.1	1435.3	1442.8	1435.3
167.5°	1450.2	1443.8	1447.0	1454.4	1444.9
170°	1459.8	1453.4	1455.5	1462.9	1453.4
172.5°	1466.1	1459.8	1461.9	1469.3	1459.8
175°	1471.4	1464.0	1466.1	1473.6	1462.9
177.5°	1473.6	1466.1	1467.2	1474.6	1465.1
180°	1468.3	1468.3	1468.3	1468.3	1468.3

(END OF REPORT)