

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: P1009213

Luminaire Tested: S122DIP-B675D1080UB27-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009213
REPORT IS A COMBINATION OF REPORTS P984421 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B675D1080UB27-4F0-XX-W2A-D
Description: Define 2 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

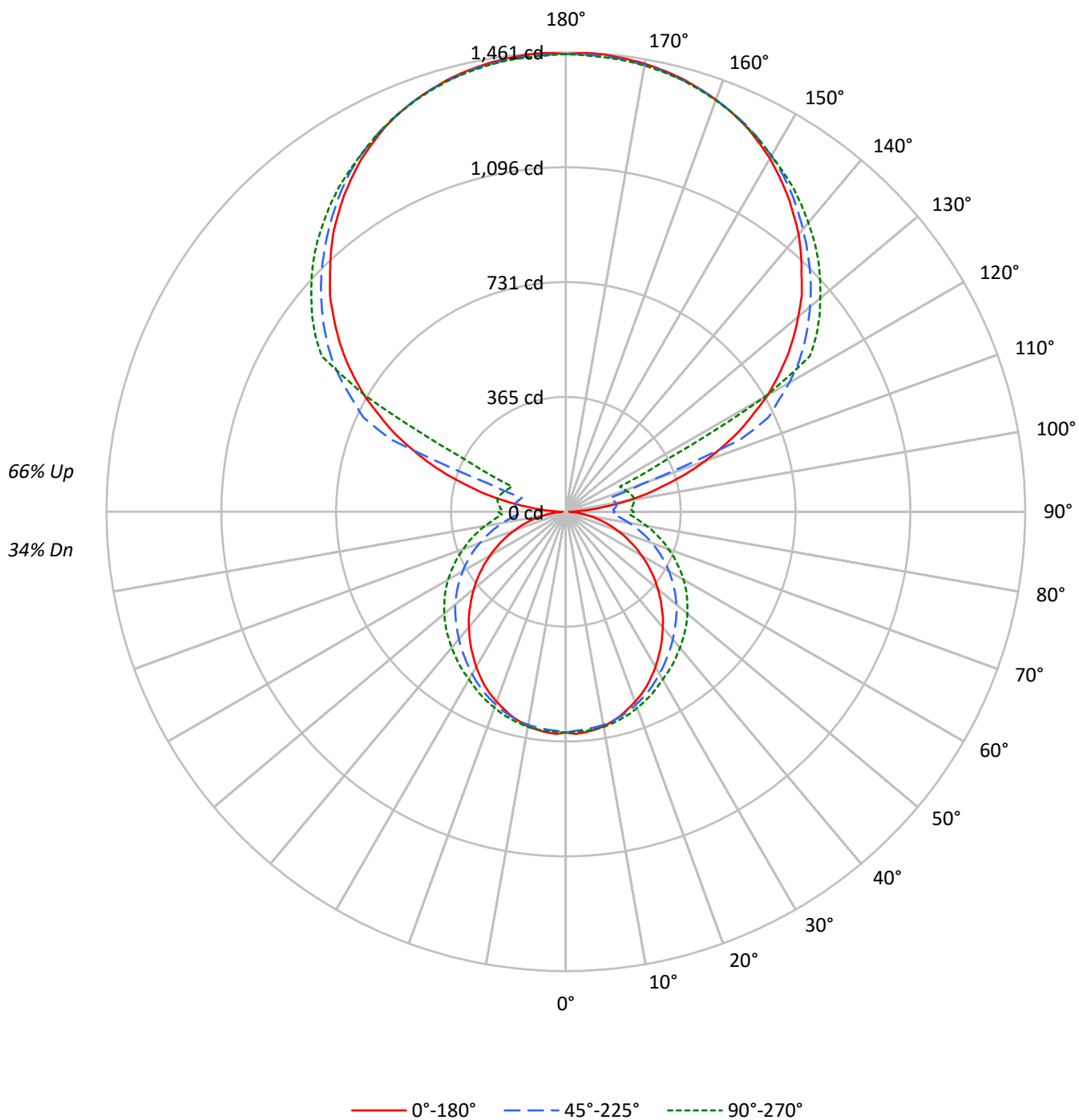
Lumens per Lamp: N/A
Luminaire Lumens: 6949.0 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 70.9
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	103	103	103	103	93	93	93	93	75	75	75	57	57	57	42	42	42
1	93	89	84	81	84	80	76	73	64	61	59	49	47	46	35	34	33
2	84	77	70	65	76	69	64	59	55	51	48	42	40	37	30	29	27
3	77	67	60	54	69	61	54	49	48	44	40	37	34	31	27	24	23
4	70	59	51	45	63	53	46	41	43	38	34	33	29	26	24	21	19
5	64	52	44	38	57	47	40	35	38	33	29	29	25	22	21	19	16
6	59	47	39	33	53	42	35	30	34	29	25	26	22	19	19	16	14
7	54	42	34	28	49	38	31	26	31	25	22	24	20	17	17	15	13
8	50	38	30	25	45	34	28	23	28	23	19	22	18	15	16	13	11
9	47	35	27	22	42	31	25	20	25	20	17	20	16	13	15	12	10
10	44	32	24	20	39	29	22	18	23	18	15	18	15	12	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11114	11114	11114
5°	11164	10640	10580
10°	11090	10272	10121
15°	10933	9890	9652
20°	10735	9489	9204
25°	10540	9106	8801
30°	10267	8717	8399
35°	9991	8341	8105
40°	9701	8016	7813
45°	9422	7722	7558
50°	9125	7451	7307
55°	8812	7162	7051
60°	8430	6861	6782
65°	8031	6517	6471
70°	7579	6146	6139
75°	7004	5777	5822
80°	6092	5389	5498
85°	5170	5025	5216

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9422 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.6	1.0
10°-20°	190.9	2.7
20°-30°	289.2	4.2
30°-40°	352.2	5.1
40°-50°	379.0	5.5
50°-60°	368.0	5.3
60°-70°	321.4	4.6
70°-80°	247.4	3.6
80°-90°	168.2	2.4
90°-100°	162.3	2.3
100°-110°	262.4	3.8
110°-120°	529.7	7.6
120°-130°	817.8	11.8
130°-140°	848.9	12.2
140°-150°	779.2	11.2
150°-160°	624.7	9.0
160°-170°	402.5	5.8
170°-180°	138.5	2.0
0°-30°	546.7	7.9
0°-40°	898.9	12.9
0°-60°	1645.9	23.7
0°-90°	2382.9	34.3
90°-120°	954.4	13.7
90°-150°	3400.3	48.9
90°-180°	4566.0	65.7
0°-180°	6949.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	702	702	702	702	702	
5°	704	701	695	701	700	67
15°	672	674	674	683	682	189
25°	610	618	627	639	642	281
35°	526	543	563	585	592	329
45°	431	459	494	526	536	333
55°	331	367	420	457	470	296
65°	226	276	336	378	391	224
75°	125	182	247	291	304	132
85°	37	100	165	208	222	39
90°	11	82	155	201	216	11
95°	77	90	158	202	213	87
105°	325	386	152	199	214	348
115°	610	639	711	254	189	600
125°	858	872	925	960	972	766
135°	1061	1078	1097	1129	1135	820
145°	1229	1228	1246	1260	1259	769
155°	1354	1344	1357	1363	1354	624
165°	1426	1420	1423	1430	1423	403
175°	1459	1451	1454	1461	1450	139
180°	1456	1456	1456	1456	1456	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	702.1	702.1	702.1	702.1	702.1
2.5°	707.2	704.1	697.0	702.1	700.1
5°	704.1	701.1	695.0	701.1	700.1
7.5°	699.1	697.0	691.9	699.1	698.0
10°	693.0	690.9	687.9	696.0	695.0
12.5°	682.8	683.8	681.8	689.9	688.9
15°	671.6	673.6	673.6	682.8	681.8
17.5°	657.3	661.4	664.5	673.6	673.6
20°	643.1	648.2	652.2	663.4	663.4
22.5°	627.8	633.9	640.0	651.2	653.3
25°	610.5	617.7	626.8	639.0	642.1
27.5°	590.2	601.4	611.5	626.8	628.8
30°	569.8	583.1	596.3	612.6	615.6
32.5°	547.4	562.7	579.0	598.3	604.4
35°	526.1	543.4	562.7	585.1	592.2
37.5°	502.7	522.0	546.4	570.8	578.0
40°	479.3	501.7	529.1	555.6	564.7
42.5°	456.9	479.3	511.8	541.3	550.5
45°	431.4	458.9	494.5	526.1	536.2
47.5°	407.0	436.5	477.2	509.8	521.0
50°	381.6	413.1	458.9	493.5	504.7
52.5°	357.2	390.7	439.6	475.2	487.4
55°	330.7	367.3	420.2	456.9	470.1
57.5°	305.3	346.0	398.9	438.6	451.8
60°	277.8	321.5	379.5	418.2	432.5
62.5°	253.4	299.2	357.2	398.9	412.1
65°	225.9	275.8	335.8	377.5	390.7
67.5°	201.5	253.4	314.4	356.1	370.4
70°	175.0	227.9	291.0	334.8	347.0
72.5°	150.6	205.5	269.7	312.4	327.7
75°	125.2	182.1	247.3	291.0	304.2
77.5°	100.7	159.8	225.9	269.7	283.9
80°	76.3	138.4	204.5	247.3	261.5
82.5°	56.0	117.0	184.2	226.9	240.1
85°	36.6	99.7	164.8	207.6	221.8
87.5°	22.4	83.4	148.6	190.3	203.5
90°	11.3	81.8	155.4	201.3	215.6
92.5°	35.5	85.2	150.5	192.2	205.5
95°	76.6	89.7	158.1	202.0	213.2
97.5°	130.3	87.8	163.6	204.4	217.7
100°	193.5	86.9	161.8	207.9	221.2
102.5°	262.0	293.5	156.7	205.0	219.4
105°	325.3	386.4	151.8	198.9	214.3
107.5°	400.1	450.8	146.8	192.9	208.4
110°	470.7	513.1	258.6	185.8	201.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	538.1	573.4	602.3	180.8	195.2
115°	609.7	638.8	711.0	253.8	189.2
117.5°	670.9	700.1	760.7	640.6	374.8
120°	740.4	760.2	819.9	861.0	730.0
122.5°	799.4	817.2	875.9	909.7	920.0
125°	858.3	872.0	924.6	959.5	971.8
127.5°	913.1	926.8	970.1	1006.1	1016.3
130°	964.7	980.6	1013.5	1049.5	1056.6
132.5°	1017.4	1030.1	1056.9	1089.8	1096.9
135°	1060.6	1077.5	1097.1	1129.1	1135.1
137.5°	1107.0	1119.6	1135.2	1165.1	1169.1
140°	1152.2	1159.7	1173.3	1199.0	1199.9
142.5°	1190.2	1196.5	1210.2	1230.9	1230.7
145°	1229.2	1228.1	1246.0	1259.5	1259.3
147.5°	1263.9	1260.8	1278.7	1285.0	1283.8
150°	1297.7	1290.3	1307.1	1313.5	1308.2
152.5°	1326.1	1317.7	1333.5	1339.8	1332.4
155°	1353.5	1344.0	1356.6	1363.0	1354.5
157.5°	1375.6	1367.2	1376.6	1384.0	1375.6
160°	1394.6	1388.2	1394.6	1400.9	1393.5
162.5°	1411.4	1405.1	1410.4	1417.7	1408.2
165°	1426.2	1419.8	1423.0	1430.4	1423.0
167.5°	1437.7	1431.4	1434.6	1442.0	1432.5
170°	1447.2	1440.9	1443.0	1450.4	1440.9
172.5°	1453.5	1447.2	1449.3	1456.7	1447.2
175°	1458.8	1451.4	1453.5	1460.9	1450.4
177.5°	1460.9	1453.5	1454.6	1462.0	1452.5
180°	1455.6	1455.6	1455.6	1455.6	1455.6

(END OF REPORT)