

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: P1009215

Luminaire Tested: S122DIP-B675D1080UB27-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009215
REPORT IS A COMBINATION OF REPORTS P984423 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B675D1080UB27-4F0-XX-W2A-D4
Description: Define 2 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

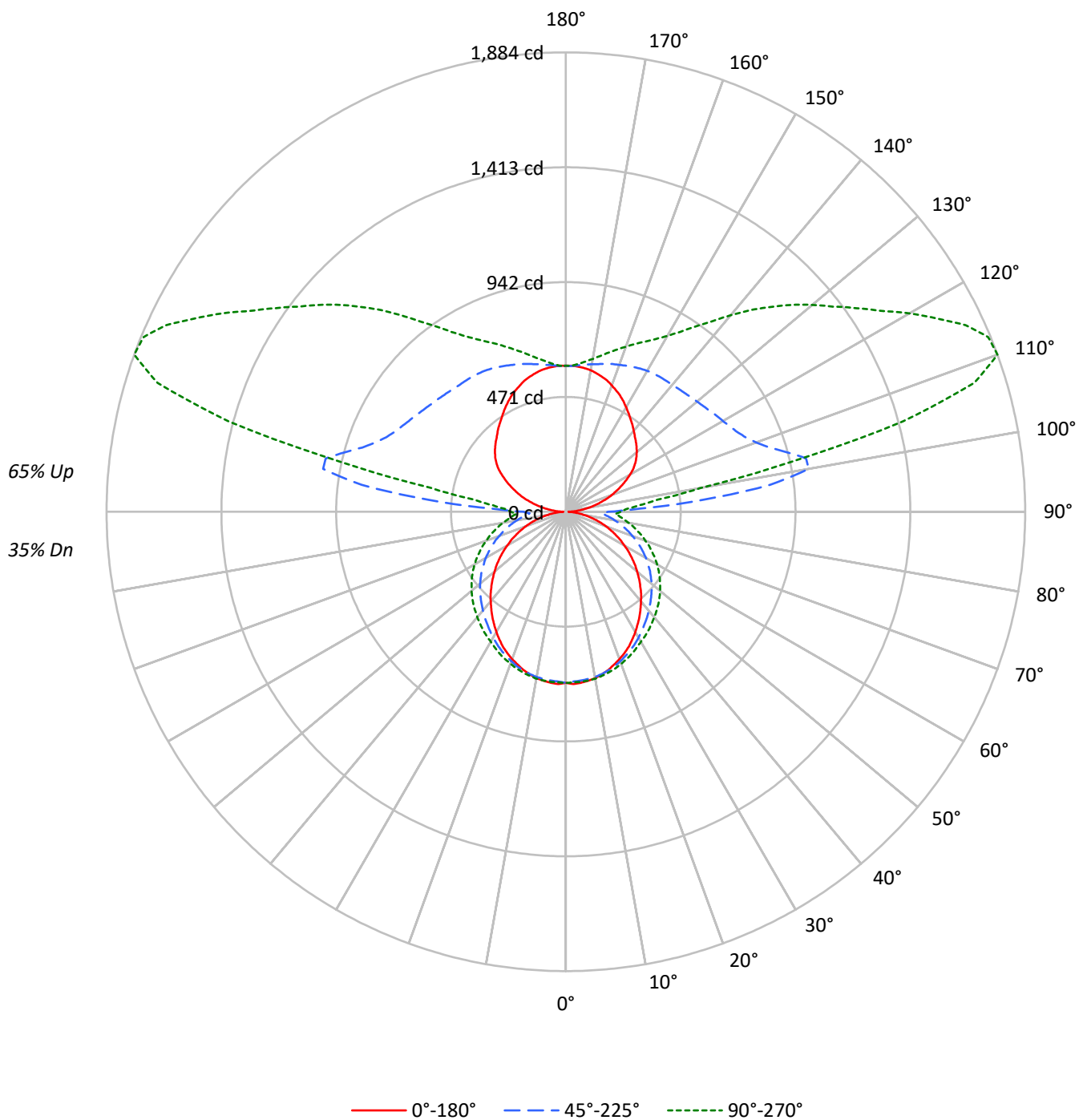
Lumens per Lamp: N/A
Luminaire Lumens: 6855.8 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	42	42	42
1	93	89	84	81	84	80	76	73	64	61	59	49	47	46	36	34	33
2	85	77	70	65	76	69	64	59	55	51	48	43	40	37	31	29	27
3	77	67	60	54	69	61	54	49	48	44	40	37	34	31	27	25	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	26	23	21	19	17
6	59	47	39	33	53	42	35	30	34	29	25	26	23	20	19	17	15
7	54	42	34	28	49	38	31	26	31	26	22	24	20	17	17	15	13
8	50	38	30	25	45	35	28	23	28	23	19	22	18	15	16	13	11
9	47	35	27	22	42	31	25	20	26	20	17	20	16	14	15	12	10
10	44	32	24	20	39	29	22	18	23	19	15	18	15	12	14	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	2.8
20°-30°	289.2	4.2
30°-40°	352.2	5.1
40°-50°	379.0	5.5
50°-60°	368.0	5.4
60°-70°	321.4	4.7
70°-80°	247.4	3.6
80°-90°	169.5	2.5
90°-100°	356.9	5.2
100°-110°	903.7	13.2
110°-120°	917.3	13.4
120°-130°	739.7	10.8
130°-140°	582.6	8.5
140°-150°	432.6	6.3
150°-160°	302.6	4.4
160°-170°	178.2	2.6
170°-180°	58.0	0.8
0°-30°	546.7	8.0
0°-40°	898.9	13.1
0°-60°	1645.9	24.0
0°-90°	2384.2	34.8
90°-120°	2178.0	31.8
90°-150°	3932.9	57.4
90°-180°	4472.0	65.2
0°-180°	6855.8	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	85	173	212	225	10
95°	48	155	568	326	299	48
105°	146	246	940	1648	1432	155
115°	252	328	775	1564	1810	249
125°	347	411	721	1255	1456	309
135°	406	484	689	1035	1188	314
145°	463	532	674	844	927	291
155°	526	568	655	741	770	242
165°	573	590	627	665	676	162
175°	597	598	603	611	609	57
180°	598	598	598	598	598	

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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°	11.4	84.8	173.4	212.4	225.2
92.5°	26.5	117.8	302.5	246.5	247.3
95°	48.4	155.0	568.2	326.0	299.1
97.5°	67.0	181.5	845.4	489.4	379.6
100°	95.7	204.8	1011.1	820.2	562.7
102.5°	121.2	226.2	1009.7	1282.3	945.9
105°	145.5	246.4	940.4	1647.6	1431.5
107.5°	173.1	266.6	875.7	1774.8	1756.0
110°	199.8	287.4	830.5	1744.7	1883.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	225.1	308.2	798.1	1663.4	1874.3
115°	251.6	327.8	774.7	1564.3	1809.8
117.5°	278.2	348.4	758.3	1470.3	1716.4
120°	303.5	368.5	744.2	1384.4	1627.6
122.5°	327.7	390.3	733.5	1316.9	1533.3
125°	347.3	410.6	720.6	1255.2	1455.9
127.5°	364.6	430.9	711.1	1200.3	1382.2
130°	379.5	449.9	702.6	1146.0	1319.9
132.5°	393.3	468.3	695.4	1090.0	1256.4
135°	406.2	484.4	689.1	1035.1	1188.3
137.5°	418.8	498.2	684.0	979.6	1121.5
140°	433.8	509.9	678.8	929.9	1052.3
142.5°	448.7	520.2	676.8	883.0	984.2
145°	462.7	531.8	674.5	843.5	927.4
147.5°	478.8	541.0	671.0	809.0	875.4
150°	494.9	550.2	667.6	782.6	832.2
152.5°	511.0	559.4	661.8	761.4	798.8
155°	526.0	568.0	654.9	740.6	770.0
157.5°	538.7	574.9	648.0	721.1	744.7
160°	551.3	581.8	641.1	701.6	720.5
162.5°	564.0	587.0	635.4	683.1	697.5
165°	573.2	590.4	627.3	665.3	675.6
167.5°	581.3	593.9	620.4	649.2	654.9
170°	589.3	595.6	614.6	634.2	636.5
172.5°	593.9	597.4	607.7	621.0	621.5
175°	597.4	598.0	603.1	610.6	608.9
177.5°	599.7	598.5	598.5	603.1	599.7
180°	598.5	598.5	598.5	598.5	598.5

(END OF REPORT)